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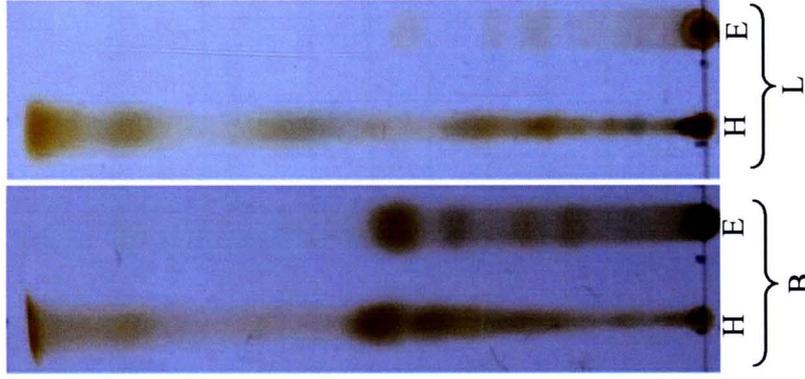
Appendices

A : TLC fingerprint from *G.parva* extracts

B : Data of study

Appendix A

Solvent system 2% MeOH in $\text{CHCl}_3/\text{SiO}_2$ GF₂₅₄



H = Hexane extracts

E = Ethyl acetate

L = Leaves

B = Branches

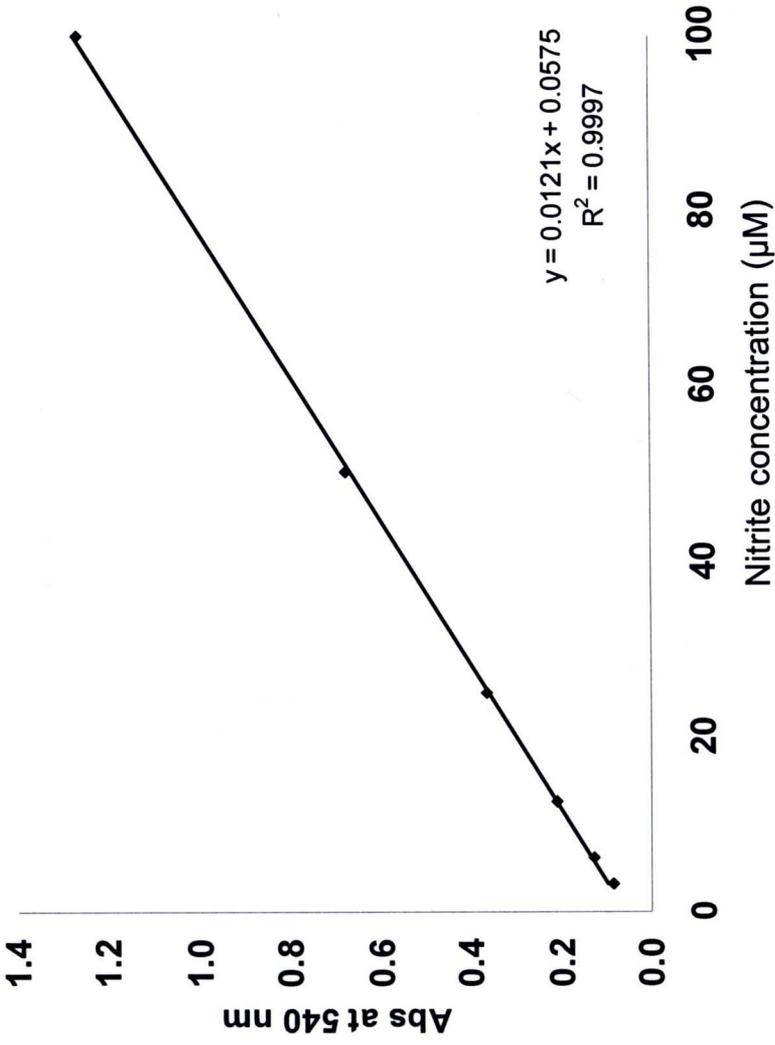
Detector 10% H_2SO_4 in EtOH as spraying reagent

Appendix A-1: TLC fingerprint of *G. parva*

Appendix B

Appendix B-1: Data for linearity of nitrite standard calibration lines

Concentration (μM)	Absorbance at 540 nm.		Mean
	1	2	
3.125	0.087	0.088	0.088
6.25	0.128	0.131	0.130
12.5	0.208	0.212	0.210
25	0.361	0.371	0.366
50	0.665	0.690	0.678
100	1.258	1.269	1.264



Appendix B-2: A representation of nitrite calibration line by Griess reaction.

Appendix B-3: The effect of G1 on nitric oxide production in LPS stimulated-macrophage J774A.1 (as nitrite concentration)

Test Compounds	Concentration of nitrite (μM)								Mean \pm S.D.
	1	2	3	4	5	6	7	8	
0.2% DMSO	29.068	29.449	22.678	24.373	23.229	23.554	24.959	22.756	25.008 \pm 2.736
Dexa (10 μM)	23.347	21.568	13.441	12.339	12.890	22.934	23.554	13.681	17.969 \pm 5.266
6.25	26.186	30.127	21.449	22.424	21.831	23.678	24.752	20.866	23.914 \pm 3.081
12.5	23.178	26.992	20.686	21.110	21.195	22.231	23.802	19.941	22.392 \pm 2.261
25	19.280	21.356	15.602	18.695	18.356	18.099	20.372	18.597	18.795 \pm 1.699
50	9.025	12.458	6.703	11.280	11.068	10.992	11.488	10.613	10.453 \pm 1.796
100	0.000	0.424	0.347	1.831	3.314	0.826	0.744	0.000	0.936 \pm 1.125

Appendix B-4: The effect of G2 on nitric oxide production in LPS stimulated-macrophage J774A.1 (as nitrite concentration)

Test Compounds	Concentration of nitrite (μM)								Mean \pm S.D.
	1	2	3	4	5	6	7	8	
0.2% DMSO	29.068	29.449	22.678	24.373	23.229	23.554	24.959	22.756	25.008 \pm 2.736
Dexa (10 μM)	23.347	21.568	13.441	12.339	12.890	22.934	23.554	13.681	17.969 \pm 5.266
3.15	28.941	29.237	21.661	21.280	22.720	21.777	23.678	16.034	23.166 \pm 4.298
6.25	24.958	25.339	18.229	18.695	19.712	18.843	21.322	11.328	19.803 \pm 4.408
12.5	21.017	20.127	12.763	15.347	16.703	15.413	16.157	8.555	15.760 \pm 3.945
25	5.424	8.941	1.661	4.669	10.263	5.372	5.868	6.832	6.129 \pm 2.638
50	0.720	0.805	0.686	0.644	1.534	0.207	0.537	0.000	0.642 \pm 0.454

Appendix B-5: The effect of G5 on nitric oxide production in LPS stimulated-macrophage J774A.1 (as nitrite concentration)

Test Compounds	Concentration of nitrite (μM)			Mean \pm S.D.
	1	2	3	
0.2% DMSO	13.588	17.642	18.208	16.479 \pm 2.520
Dexa ($10\mu\text{M}$)	5.806	4.560	5.818	5.395 \pm 2.520
1.56	11.056	13.868	15.535	13.486 \pm 2.264
3.13	9.900	13.270	13.553	12.241 \pm 2.032
6.25	9.400	12.107	12.925	11.477 \pm 1.845
12.5	5.994	10.220	12.327	9.514 \pm 3.225
25	0.000	0.692	0.409	0.367 \pm 0.348
50	0.000	0.031	0.252	0.094 \pm 0.137

Appendix B-6: The effect of G6 on nitric oxide production in LPS stimulated-macrophage J774A.1 (as nitrite concentration)

Test Compounds	Concentration of nitrite (μM)			Mean \pm S.D.
	1	2	3	
0.2% DMSO	13.588	17.642	18.208	16.479 \pm 2.520
Dexa (10 μM)	5.806	4.560	5.818	5.395 \pm 2.520
1.56	11.463	13.270	16.509	13.747 \pm 2.557
3.13	10.869	11.667	14.969	12.501 \pm 2.174
6.25	9.056	11.226	13.365	11.216 \pm 2.155
12.5	6.056	7.170	9.591	7.606 \pm 1.807
25	0.087	0.031	0.629	0.249 \pm 0.330
50	0.000	0.000	0.126	0.042 \pm 0.073



Appendix B-7: Cytotoxicity of G1 (µg/ml) in LPS stimulated-macrophage J774A.1

Test Compounds	% cytotoxicity								Mean ± S.D.	
	1	2	3	4	5	6	7	8		
0.2% DMSO	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 ± 0.000
Dexa (10µM)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 ± 0.000
6.25	1.979	1.809	0.000	0.000	0.000	1.140	0.000	0.000	0.000	0.616 ± 0.883
12.5	0.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.053 ± 0.151
25	1.732	1.146	0.000	0.000	0.000	2.371	1.130	0.000	0.000	0.797 ± 0.935
50	0.000	0.000	0.000	0.000	0.000	0.684	0.000	0.000	0.000	0.086 ± 0.242
100	29.487	28.427	34.584	23.196	24.914	16.256	16.275	18.000	18.000	23.892 ± 6.748

Appendix B-8: Cytotoxicity of G2 (µg/ml) in LPS stimulated-macrophage J774A.1

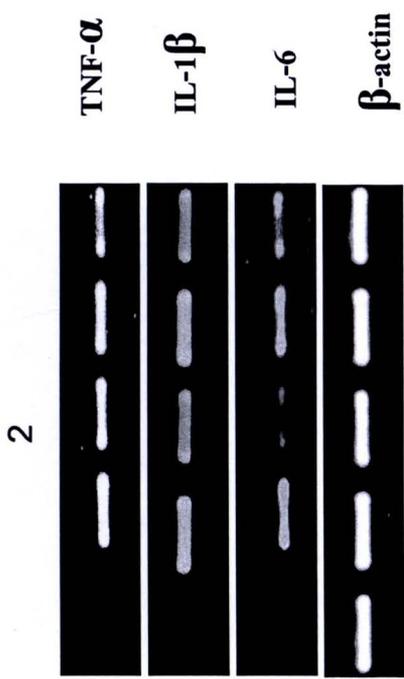
Test Compounds	% cytotoxicity								Mean ± S.D.	
	1	2	3	4	5	6	7	8		
0.2% DMSO	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 ± 0.000
Dexa (10µM)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 ± 0.000
3.15	3.711	4.303	4.394	3.751	0.885	5.267	3.711	0.000	0.000	3.253 ± 1.825
6.25	1.462	1.989	2.043	2.184	0.000	5.381	3.504	0.000	0.000	2.070 ± 1.772
12.5	0.922	1.000	2.827	1.804	0.000	5.381	3.757	0.000	0.000	1.961 ± 1.905
25	2.969	2.663	2.518	1.235	3.317	2.554	0.738	0.000	0.000	1.999 ± 1.187
50	19.456	24.258	52.803	55.556	41.671	22.595	33.933	11.271	11.271	32.693 ± 16.109

Appendix B-9: Cytotoxicity of G5 ($\mu\text{g}/\text{ml}$) in LPS stimulated-macrophage J774A.1

Test Compounds	% cytotoxicity			Mean \pm S.D.
	1	2	3	
0.2% DMSO	0.000	0.000	0.000	0.000 \pm 0.000
Dexa (10 μM)	1.805	0.000	0.000	0.602 \pm 1.042
1.56	0.000	0.000	0.000	0.000 \pm 0.000
3.13	0.000	0.000	0.000	0.000 \pm 0.000
6.25	0.952	0.000	0.000	0.317 \pm 0.550
12.5	3.459	0.000	0.000	1.153 \pm 1.997
25	2.281	0.000	0.000	0.760 \pm 1.317
50	100.000	100.000	100.000	100.000 \pm 0.000

Appendix B-10: Cytotoxicity of G6 (µg/ml) in LPS stimulated-macrophage J774A.1

Test Compounds	% cytotoxicity			Mean ± S.D.
	1	2	3	
0.2% DMSO	0.000	0.000	0.000	0.000 ± 0.000
Dexa (10µM)	1.805	0.000	0.000	0.602 ± 1.042
1.56	0.000	0.000	0.000	0.000 ± 0.000
3.13	0.852	0.000	0.000	0.284 ± 0.492
6.25	2.456	0.000	0.000	0.819 ± 1.418
12.5	0.000	0.000	0.000	0.000 ± 0.000
25	0.000	0.000	0.000	0.000 ± 0.000
50	95.163	100.000	100.000	98.388 ± 2.793



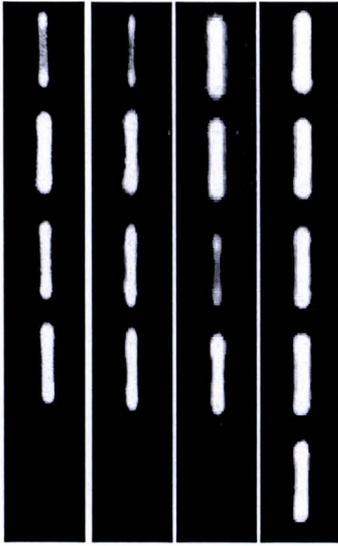
	-	+	+	+	+	+	+	+	+
LPS (100 ng/ml)	-	+	+	+	+	+	+	+	+
0.2 % DMSO	+	+	-	-	+	+	-	-	-
Dexa (10 mM)	-	-	+	-	-	-	+	-	-
G1(μg/ml)	-	-	-	25	50	-	-	25	50

Appendix B-11 : Effect of branches extracted with hexane (G1) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells.

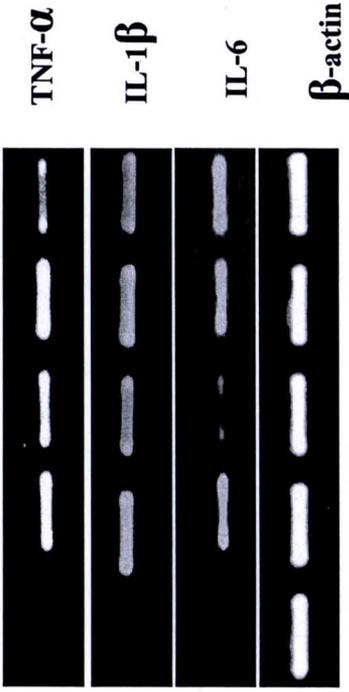
Appendix B-12: Effect of branches extracted with hexane (G1) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells.

Test Compounds	% Of control TNF- α		Mean \pm S.D.	% Of control IL-1 β		Mean \pm S.D.	% Of control IL-6		Mean \pm S.D.
	1	2		1	2		1	2	
0.2% DMSO	4.095	5.469	4.782 \pm 0.971	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm .000
0.2% DMSO+LPS	100.026	100.032	100.029 \pm 0.004	99.982	99.991	99.986 \pm 0.006	99.923	99.997	99.960 \pm 0.052
Dexa (10 μ M)+LPS	81.218	76.763	78.991 \pm 3.150	94.991	96.276	95.633 \pm 0.909	25.158	38.557	31.857 \pm 9.475
25(μ g/ml)+LPS	77.900	74.647	76.273 \pm 2.300	96.823	95.400	96.111 \pm 1.007	89.889	91.213	90.551 \pm 0.936
50(μ g/ml)+LPS	46.285	45.107	45.696 \pm 0.833	84.182	84.077	84.129 \pm 0.074	45.495	42.371	43.933 \pm 2.209

1



2



LPS (100 ng/ml)

0.2 % DMSO

Dexa (10 mM)

G2(μg/ml)

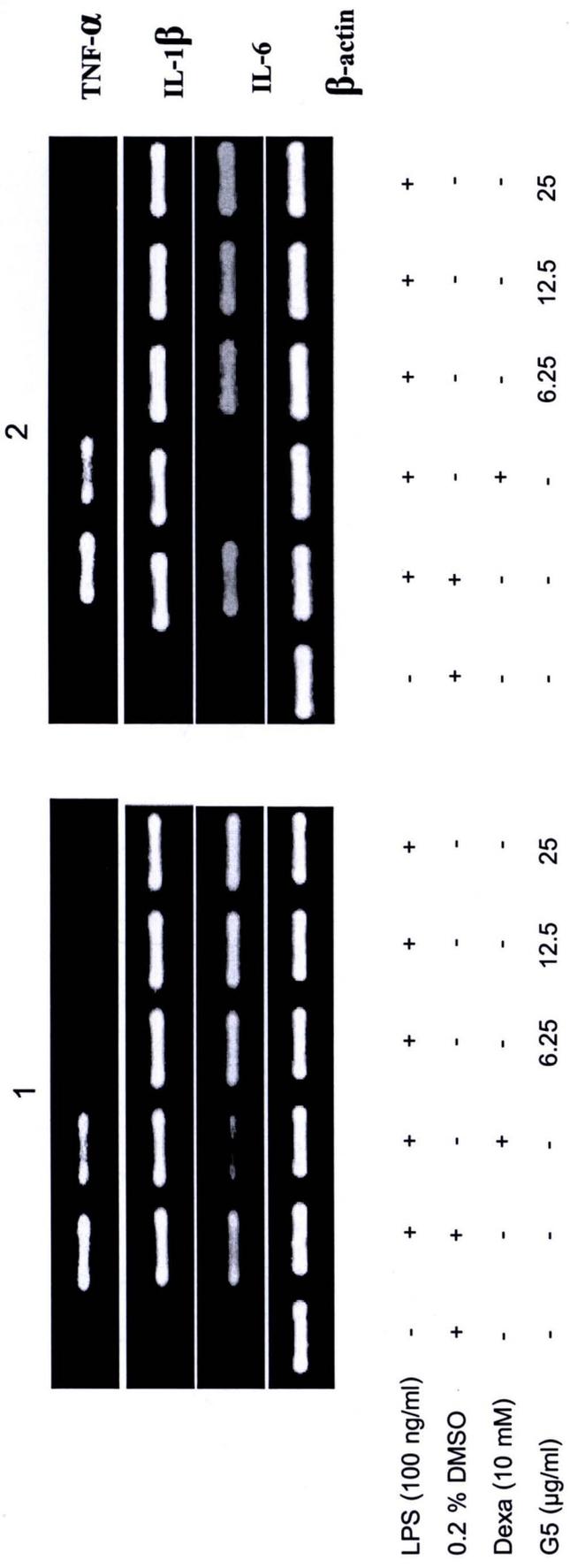
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-	-	+	-	-	-	+	-	-	-
-	-	-	10	20	-	-	10	20	20



Appendix B-13: Effect of branches extracted with ethyl acetate (G2) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells.

Appendix B-14 : Effect of branches extracted with ethyl acetate (G2) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL- 1β and IL-6) in LPS stimulated-macrophage J774A.1 cells.

Test Compounds	% Of control TNF- α		Mean \pm S.D.	% Of control IL- 1β		Mean \pm S.D.	% Of control IL-6		Mean \pm S.D.
	1	2		1	2		1	2	
0.2% DMSO	4.095	5.469	4.782 \pm 0.971	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm 0.000
0.2% DMSO+LPS	100.026	100.032	100.029 \pm 0.004	99.982	99.991	99.986 \pm 0.006	99.923	99.997	99.960 \pm 0.052
Dexa (10 μ M)+LPS	81.218	76.763	78.991 \pm 3.150	94.991	96.276	95.633 \pm 0.909	25.158	38.557	31.857 \pm 9.475
10(μ g/ml)+LPS	98.135	101.643	99.889 \pm 2.481	101.528	101.242	101.385 \pm 0.202	100.643	102.672	101.657 \pm 1.435
20(μ g/ml)+LPS	42.014	42.343	42.179 \pm 0.232	29.990	30.433	30.212 \pm 0.313	100.740	103.028	101.884 \pm 1.618

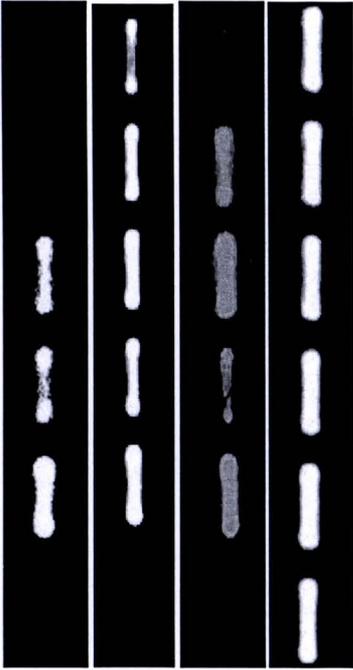


Appendix B-15: Effect of leaves extracted with hexane (G5) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells.

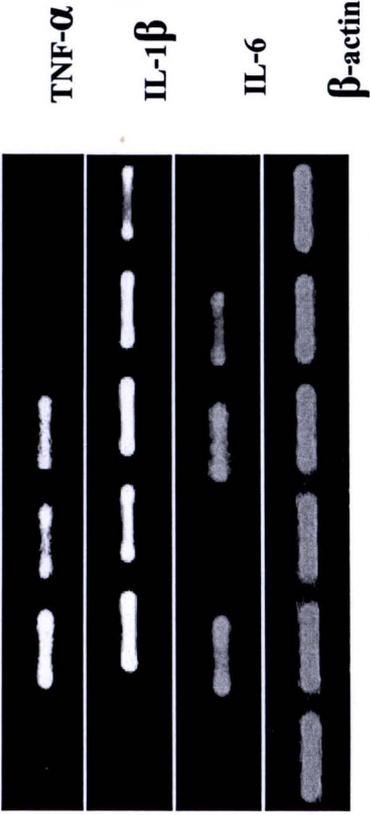
Appendix B-16 : Effect of leaves extracted with hexane (G5) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells.

Test Compounds	% Of control TNF- α		Mean \pm S.D.	% Of control IL-1 β		Mean \pm S.D.	% Of control IL-6		Mean \pm S.D.
	1	2		1	2		1	2	
0.2% DMSO	4.095	5.469	4.782 \pm 0.971	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm 0.000
0.2% DMSO+LPS	100.020	99.998	100.009 \pm 0.015	100.009	100.012	100.010 \pm 0.002	100.009	100.024	100.016 \pm 0.010
Dexa (10 μ M)+LPS	79.826	78.323	79.074 \pm 1.063	89.418	92.968	91.193 \pm 2.511	11.340	11.467	11.403 \pm 0.090
6.25(μ g/ml)+LPS	9.572	8.214	8.893 \pm 0.960	99.564	99.559	99.561 \pm 0.003	99.207	99.247	99.227 \pm 0.060
12.5(μ g/ml)+LPS	8.047	5.906	6.977 \pm 1.514	92.254	92.933	92.593 \pm 0.480	99.623	99.707	99.665 \pm 0.028
25(μ g/ml)+LPS	6.464	4.990	5.727 \pm 1.042	86.987	82.507	84.747 \pm 3.168	101.090	101.166	101.628 \pm 0.690

1



2

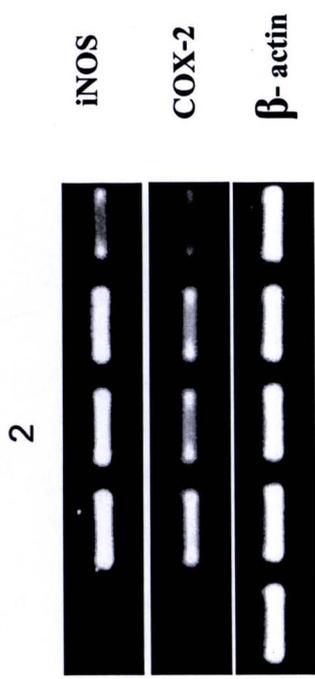


LPS (100 ng/ml)	-	+	+	+	+	-	+	+	+	+	+	+	+	+
0.2 % DMSO	+	+	-	-	-	+	+	-	-	-	-	-	-	-
Dexa (10 mM)	-	-	+	-	-	-	-	+	-	-	-	-	-	-
G6 (µg/ml)	-	-	-	6.25	12.5	25	-	6.25	12.5	25	-	6.25	12.5	25

Appendix B-17: Effect of leaves extracted with ethyl acetate (G6) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells

Appendix B-18: Effect of leaves extracted with ethyl acetate (G6) from *Glycosmis parva* on mRNA expressions of cytokines (TNF- α , IL-1 β and IL-6) in LPS stimulated-macrophage J774A.1 cells

Test Compounds	% Of control		Mean \pm S.D.	% Of control		Mean \pm S.D.	% Of control		Mean \pm S.D.
	TNF- α			IL-1 β			IL-6		
	1	2		1	2		1	2	
0.2% DMSO	4.095	5.469	4.782 \pm 0.971	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm 0.000
0.2% DMSO+LPS	100.020	99.998	100.009 \pm 0.015	100.009	100.012	100.010 \pm 0.002	100.009	100.024	100.016 \pm 0.010
Dexa (10 μ M)+LPS	79.826	78.323	79.074 \pm 1.063	89.418	92.968	91.193 \pm 2.511	11.340	11.467	11.403 \pm 0.090
6.25(μ g/ml)+LPS	70.319	69.266	69.793 \pm 0.745	100.214	100.287	100.251 \pm 0.052	105.650	106.089	105.870 \pm 0.310
12.5(μ g/ml)+LPS	9.152	11.331	10.241 \pm 1.541	86.424	85.446	85.935 \pm 0.692	41.548	47.491	44.520 \pm 4.202
25(μ g/ml)+LPS	0.888	1.928	1.408 \pm 0.736	63.397	66.048	64.723 \pm 1.874	1.103	3.025	2.064 \pm 1.359

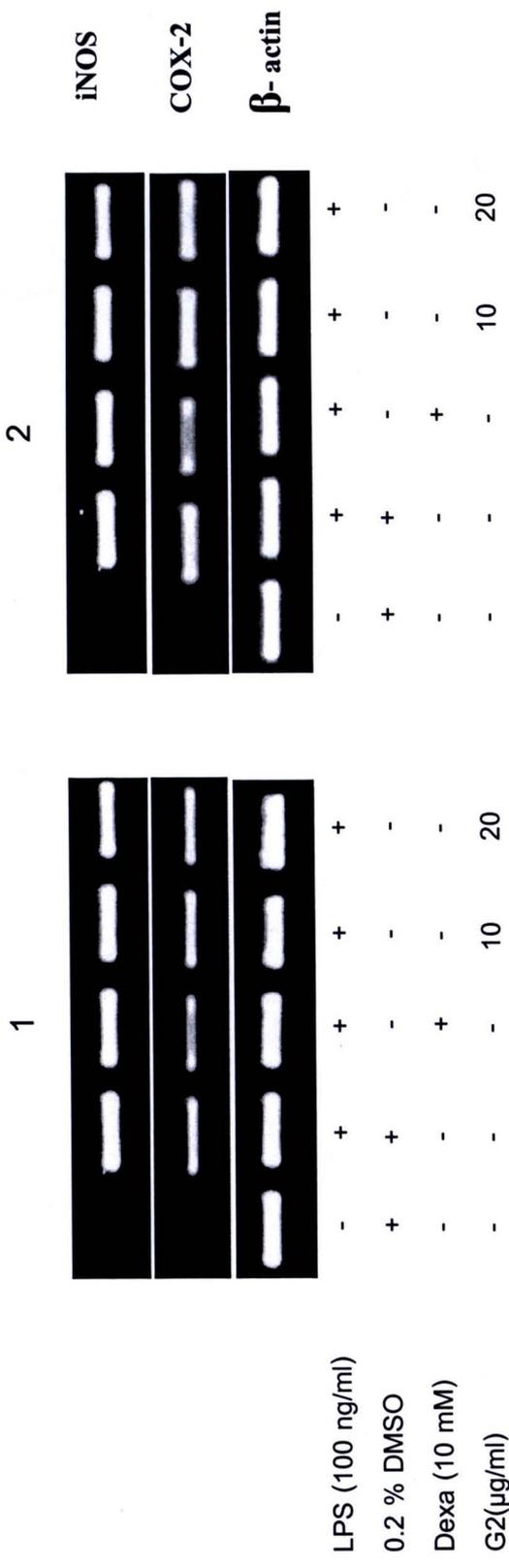


LPS (100 ng/ml)	-	+	+	+	+	-	+	+	+	+
0.2 % DMSO	+	+	-	-	-	+	+	-	-	-
Dexa (10 mM)	-	-	+	-	-	-	-	+	-	-
G1(µg/ml)	-	-	-	25	50	-	-	-	25	50

Appendix B-19: Effect of branches extracted with hexane (G1) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells.

Appendix B-20 : Effect of branches extracted with hexane (G1) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Test Compounds	% Of control iNOS		Mean \pm S.D.	% Of control COX-2		Mean \pm S.D.
	1	2		1	2	
0.2% DMSO	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm 0.000
0.2% DMSO+LPS	100.047	100.016	100.031 \pm 0.022	99.985	100.000	99.992 \pm 0.010
Dexa (10 μ M)+LPS	85.753	83.818	84.785 \pm 1.368	35.935	36.109	36.022 \pm 0.123
25(μ g/ml)+LPS	93.894	91.346	92.620 \pm 1.801	34.597	35.524	35.061 \pm 0.655
50(μ g/ml)+LPS	31.921	28.237	30.079 \pm 2.604	16.273	15.643	15.958 \pm 0.445

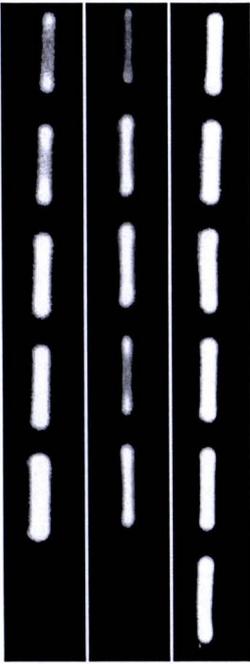


Appendix B-21: Effect of branches extracted with ethyl acetate (G2) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Appendix B-22 : Effect of branches extracted with ethyl acetate (G2) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells.

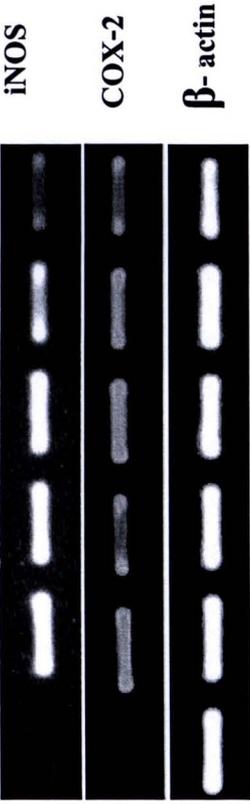
Test Compounds	% Of control iNOS		Mean \pm S.D.	% Of control COX-2		Mean \pm S.D.
	1	2		1	2	
0.2% DMSO	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm 0.000
0.2% DMSO+LPS	100.047	100.016	100.031 \pm 0.022	99.985	100.000	99.992 \pm 0.010
Dexa (10 μ M)+LPS	85.753	83.818	84.785 \pm 1.368	35.935	36.109	36.022 \pm 0.123
10(μ g/ml)+LPS	98.686	99.087	98.887 \pm 0.284	94.274	97.040	95.657 \pm 1.956
20(μ g/ml)+LPS	75.914	77.427	76.670 \pm 1.070	77.278	79.134	78.206 \pm 1.312

1



LPS (100 ng/ml)	-	+	+	+	+	+	+	+	+	+	+
0.2 % DMSO	+	+	-	-	-	-	-	-	-	-	-
Dexa (10 mM)	-	-	+	-	-	-	-	-	-	-	-
G5 (µg/ml)	-	-	-	6.25	12.5	25	6.25	12.5	25	6.25	12.5

2



LPS (100 ng/ml)	-	+	+	+	+	+	+	+	+	+	+
0.2 % DMSO	+	+	-	-	-	-	-	-	-	-	-
Dexa (10 mM)	-	-	+	-	-	-	-	-	-	-	-
G5 (µg/ml)	-	-	-	6.25	12.5	25	6.25	12.5	25	6.25	12.5

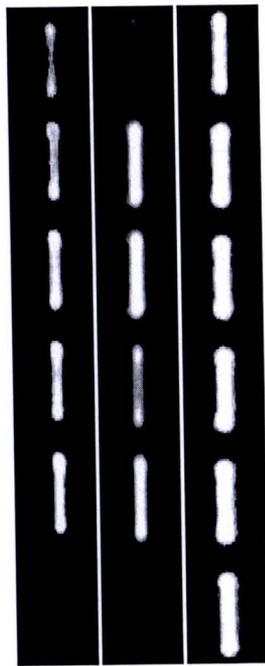
Appendix B-23: Effect of leaves extracted with hexane (G5) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Appendix B-24 : Effect of leaves extracted with hexane (G5) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

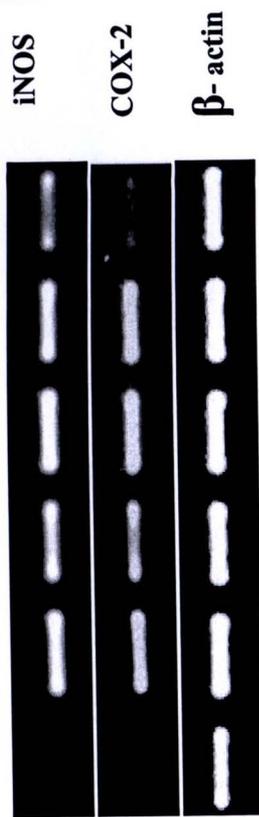
Test Compounds	% Of control iNOS		Mean \pm S.D.	% Of control COX-2		Mean \pm S.D.
	1	2		1	2	
	0.2% DMSO	0.000		0.000	0.000 \pm 0.000	
0.2% DMSO+LPS	99.275	100.012	99.643 \pm 0.521	99.953	100.047	100.000 \pm 0.066
Dexa (10 μ M)+LPS	78.449	81.105	79.777 \pm 1.878	36.260	39.613	37.936 \pm 2.371
6.25(μ g/ml)+LPS	83.330	84.740	84.035 \pm 0.997	95.986	94.706	95.346 \pm 0.905
12.5(μ g/ml)+LPS	57.854	61.211	59.533 \pm 2.374	79.963	76.563	78.263 \pm 2.404
25(μ g/ml)+LPS	34.375	36.737	35.556 \pm 1.670	17.808	18.012	17.910 \pm 0.145



1



2



LPS (100 ng/ml)	-	+	+	+	+	-	+	+	+	+	+
0.2 % DMSO	+	+	-	-	-	+	+	-	-	-	-
Dexa (10 mM)	-	-	+	-	-	-	-	+	-	-	-
G6 (µg/ml)	-	-	-	6.25	12.5	25	-	6.25	12.5	25	25

Appendix B-25 : Effect of leaves extracted with ethyl acetate (G6) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Appendix B-26 : Effect of leaves extracted with ethyl acetate (G6) from *Glycosmis parva* on mRNA expressions of iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells.

Test Compounds	% Of control		Mean \pm S.D.	% Of control		Mean \pm S.D.
	iNOS			COX-2		
	1	2		1	2	
0.2% DMSO	0.000	0.000	0.000 \pm 0.000	0.000	0.000	0.000 \pm 0.000
0.2% DMSO+LPS	99.979	99.995	99.987 \pm 0.012	99.931	100.018	99.975 \pm 0.061
Dexa (10 μ M)+LPS	80.203	81.613	80.908 \pm 0.997	33.541	31.546	32.544 \pm 1.410
6.25(μ g/ml)+LPS	99.704	98.229	98.966 \pm 1.043	99.786	98.664	99.225 \pm 0.793
12.5(μ g/ml)+LPS	81.332	80.754	81.043 \pm 0.409	86.069	90.608	88.338 \pm 3.209
25(μ g/ml)+LPS	17.094	17.859	17.476 \pm 0.541	6.827	7.209	7.018 \pm 0.270

Appendix B-27 : % inhibition of branches extracted with hexane (G1) from *Glycosmis parva* on mRNA expressions of TNF- α , IL-1 β , IL-6, iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Test Compounds	% Inhibition of mRNA expression					
	TNF- α	IL-1 β	IL-6	iNOS	COX-2	
0.2% DMSO	0.000	0.000	0.000	0.000	0.000	
0.2% DMSO+LPS	0.000	0.014	0.040	0.000	0.000	
Dexa (10 μ M)+LPS	21.009	4.367	68.143	15.215	15.215	
1250(μ g/ml)+LPS	23.727	3.889	9.449	7.380	7.380	
50(μ g/ml)+LPS	54.304	15.871	56.067	69.921	69.921	

Appendix B-28 : % inhibition of branches extracted with ethyl acetate (G2) from *Glycosmis parva* on mRNA expressions of TNF- α , IL-1 β , IL-6, iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Test Compounds	% Inhibition of mRNA expression					
	TNF- α	IL-1 β	IL-6	iNOS	COX-2	
0.2% DMSO	0.000	0.000	0.000	0.000	0.000	
0.2% DMSO+LPS	0.000	0.014	0.040	0.000	0.008	
Dexa (10 μ M)+LPS	21.009	4.367	68.143	15.215	63.978	
10(μ g/ml)+LPS	0.111	-1.385	0.000	1.113	4.343	
20(μ g/ml)+LPS	57.821	69.788	0.000	23.330	21.794	

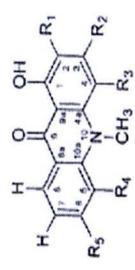
Appendix B-29 : % Inhibition of leaves extracted with hexane (G5) from *Glycosmis parva* on mRNA expressions of TNF- α , IL-1 β , IL-6, iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

Test Compounds	% Inhibition of mRNA expression					
	TNF- α	IL-1 β	IL-6	iNOS	COX-2	
0.2% DMSO	0.000	0.000	0.000	0.000	0.000	
0.2% DMSO+LPS	0.000	0.000	0.000	0.357	0.000	
Dexa (10 μ M)+LPS	20.926	8.807	88.597	20.223	62.064	
6.25(μ g/ml)+LPS	91.107	0.439	0.773	15.965	4.654	
12.5(μ g/ml)+LPS	93.023	7.407	0.335	40.467	21.737	
25(μ g/ml)+LPS	94.273	15.253	-1.628	64.444	82.090	

Appendix B-30 : % Inhibition of leaves extracted with ethyl acetate (G6) from *Glycosmis parva* on mRNA expressions of TNF- α , IL-1 β , IL-6, iNOS and COX-2 in LPS stimulated-macrophage J774A.1 cells

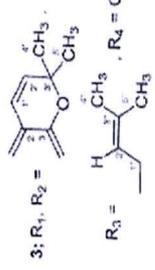
Test Compounds	% Inhibition of mRNA expression				
	TNF- α	IL-1 β	IL-6	iNOS	COX-2
0.2% DMSO	0.000	0.000	0.000	0.000	0.000
0.2% DMSO+LPS	0.000	0.000	0.000	0.013	0.025
Dexa (10 μ M)+LPS	36.019	11.575	88.597	19.092	67.456
6.25(μ g/ml)+LPS	30.207	0.000	0.000	1.034	0.775
12.5(μ g/ml)+LPS	89.759	14.065	55.480	18.957	11.662
25(μ g/ml)+LPS	98.592	35.277	97.936	82.524	92.982

Appendix B-31 : Compounds are identified from *G. prava*



1; R₁ = OCH₃, R₂ = R₄ = OH, R₃ = R₅ = H

2; R₁ = R₃ = , R₂ = R₄ = OH, R₅ = H



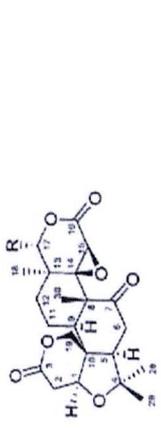
3; R₁, R₂ = , R₃ = H

R₄ = OH, R₅ = H

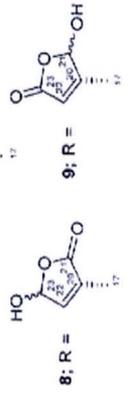
4; R₁ = H, R₂ = R₃ = R₄ = OCH₃, R₅ = OH

5; R₁ = R₄ = OCH₃, R₂ = R₅ = OH, R₃ = H

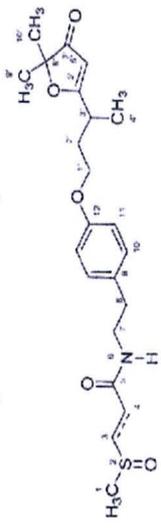
6; R₁ = R₂ = OCH₃, R₃ = R₄ = R₅ = H



7; R =

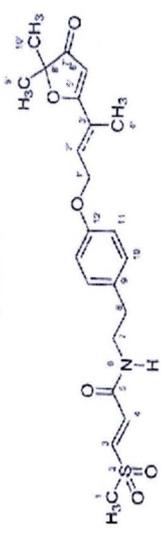


8; R =



10; unsaturated (double bond on C-3 and C-4)

11; saturated



12; unsaturated (double bond on C-2' and C-3')

13; saturated

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