



**THESIS APPROVAL**  
**GRADUATE SCHOOL, KASETSART UNIVERSITY**

Master of Science (Chemistry)

**DEGREE**

Physical Chemistry

**FIELD**

Chemistry

**DEPARTMENT**

**TITLE:** The Protein Framework and Solvent Effect on the Energetics of the Acylation Step in Butyrylcholinesterase-catalyzed Hydrolysis of Cocaine: An Electronic Embedding Method

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