



Determining the Crystal Structure of the aa-CoA Synthase Npht7

Cooperative Research and Development Final Report

CRADA Number: CRD-13-533

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In accordance with Requirements set forth in Article XI, A(3) of the CRADA document, this document is the final CRADA report, including a list of Subject Inventions, to be forwarded to the Office of Science and Technical Information as part of the commitment to the public to demonstrate results of federally funded research.

Parties to the Agreement: OPX Biotechnologies

CRADA Number: CRD-13-533

CRADA Title: Determining the Crystal Structure of the aa-CoA Synthase Npht7

Joint Work Statement Funding Table Showing DOE Commitment:

Estimated Costs	NREL Shared Resources
Year 1	\$ 25,000.00
TOTALS	\$ 25,000.00

Abstract of CRADA Work:

Attempt to obtain crystals of diffractable quality from protein sample provided by OPX and solve the structure of the aa-CoA synthase enzyme.

Summary of Research Results:

OPX Biotechnologies lost interest in pursuing the goal of the CRADA after discovering that they cannot provide stable protein samples. All received protein batches precipitated in a very short time (overnight after receiving the samples). Standard methods of improving protein stability / increasing solubility did not help much and the company decided to abandon the project at that early stage. Therefore no crystallization trials were set up, no crystals were obtained, and no crystals' structures were solved.

Subject Inventions Listing: None

Report Date: 1/12/2015

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