

## COASY Protein, Human (His)

Cat. No.:	HY-P76843
Synonyms:	Bifunctional coenzyme A synthase; CoA synthase; NBP; POV-2; PPAT; DPCK
Species:	Human
Source:	E. coli
Accession:	Q13057 (M296-D564)
Gene ID:	80347
Molecular Weight:	Approximately 33 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The COASY protein functions as a bifunctional enzyme, playing a pivotal role in catalyzing the fourth and fifth sequential steps of the CoA biosynthetic pathway. The phosphopantetheine adenyltransferase activity, coded by the coaD domain, facilitates the fourth reaction, while the dephospho-CoA kinase activity, coded by the coaE domain, drives the fifth reaction in the pathway. This enzyme is integral to CoA biosynthesis regulation and may serve as a crucial point for controlling the overall process, ensuring the proper and efficient synthesis of CoA, a vital cofactor involved in various cellular metabolic pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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