

Recombinant Human COASY, GST-tagged

Cat. No. COASY-11415H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COASY protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-269a.a.
Description	Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. COASY is a bifunctional enzyme that catalyzes the 2 last steps in CoA synthesis. These activities are performed by 2 separate enzymes, phosphopantetheine adenylyltransferase (PPAT; EC 2.7.7.3) and dephospho-CoA kinase (DPCK; EC 2.7.1.24), in prokaryotes (Daugherty et al., 2002 [PubMed 11923312]).
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	COASY CoA synthase [Homo sapiens]
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	COASY
Synonyms	COASY; CoA synthase; Coenzyme A synthase; bifunctional coenzyme A synthase; CoASY; DPCK; NBP; PPAT; nucleotide binding protein; phosphopantetheine adenyltransferase / dephosphocoenzyme A kinase; bifunctional phosphopantetheine adenyl transferase/dephospho CoA kinase; UKR1; pOV-2; FLJ35179;
Gene ID	80347
mRNA Refseq	NM_001042529
Protein Refseq	NP_001035994
MIM	609855
UniProt ID	Q13057
Chromosome Location	17q12-q21
Pathway	Coenzyme A biosynthesis, organism-specific biosystem; Coenzyme A biosynthesis, pantothenate => CoA, organism-specific biosystem; Coenzyme A biosynthesis, pantothenate => CoA, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; dephospho-CoA kinase activity; nucleotide binding; nucleotidyltransferase activity; pantetheine-phosphate adenyltransferase activity; transferase activity;

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