Recombinant Human DAK, GST-tagged

Cat. No. DAK-11819H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DAK protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.
Description	This gene is a member of the family of dihydroxyacetone kinases, which have a protein structure distinct from other kinases. The product of this gene phosphorylates dihydroxyacetone, and also catalyzes the formation of riboflavin 4,5-phosphate (aka cyclin FMN) from FAD. Several alternatively spliced transcript variants have been identified, but the full-length nature of only one has been determined.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	DAK dihydroxyacetone kinase 2 homolog (S. cerevisiae) [Homo sapiens]

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Official Symbol	DAK
Synonyms	DAK; dihydroxyacetone kinase 2 homolog (S. cerevisiae); dihydroxyacetone kinase 2 homolog (yeast); bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing); DKFZP586B1621; NET45; DHA kinase; glycerone kinase; Dha kinase/FMN cyclase; FAD-AMP lyase cyclizing; FAD-AMP lyase cyclic FMN forming; ATP-dependent dihydroxyacetone kinase; MGC5621; DKFZp586B1621;
Gene ID	26007
mRNA Refseq	NM_015533
Protein Refseq	NP_056348
UniProt ID	Q3LXA3
Chromosome Location	11q12.2
Pathway	Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; RIG-I-like receptor signaling pathway, organism-specific biosystem; RIG-I-like receptor signaling pathway, conserved biosystem;
Function	ATP binding; FAD-AMP lyase (cyclizing) activity; glycerone kinase activity; lyase activity; metal ion binding; nucleotide binding; transferase activity;

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