

Recombinant Human CERK, GST-tagged

Cat. No. CERK-11123H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CERK protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-201
Description	CERK converts ceramide to ceramide 1-phosphate (C1P), a sphingolipid metabolite. Both CERK and C1P have been implicated in various cellular processes, including proliferation, apoptosis, phagocytosis, and inflammation (Kim et al., 2006 [PubMed 16488390]).
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	CERK ceramide kinase [Homo sapiens]
Official Symbol	CERK

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Synonyms	CERK; ceramide kinase; dA59H18.2; dA59H18.3; DKFZp434E0211; FLJ21430; FLJ23239; hCERK; KIAA1646; LK4; lipid kinase 4; lipid kinase LK4; acylsphingosine kinase; MGC131878;
Gene ID	64781
mRNA Refseq	NM_022766
Protein Refseq	NP_073603
MIM	610307
UniProt ID	Q8TCT0
Chromosome Location	22q13.31
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; Integrated Breast Cancer Pathway, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, conserved biosystem;
Function	ATP binding; ceramide kinase activity; diacylglycerol kinase activity; magnesium ion binding; nucleotide binding; transferase activity;