

## Recombinant Human CERK, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CERK protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-201
<b>Description</b>	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]).
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

<b>Gene Name</b>	CERK ceramide kinase [ Homo sapiens ]
<b>Official Symbol</b>	CERK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Synonyms</b>	CERK; ceramide kinase; dA59H18.2; dA59H18.3; DKFZp434E0211; FLJ21430; FLJ23239; hCERK; KIAA1646; LK4; lipid kinase 4; lipid kinase LK4; acylsphingosine kinase; MGC131878;
<b>Gene ID</b>	<a href="#">64781</a>
<b>mRNA Refseq</b>	<a href="#">NM_022766</a>
<b>Protein Refseq</b>	<a href="#">NP_073603</a>
<b>MIM</b>	<a href="#">610307</a>
<b>UniProt ID</b>	<a href="#">Q8TCT0</a>
<b>Chromosome Location</b>	22q13.31
<b>Pathway</b>	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;
<b>Function</b>	ATP binding; ceramide kinase activity; diacylglycerol kinase activity; magnesium ion binding; nucleotide binding; transferase activity;

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