

## Recombinant Human CERK Protein, His-tagged

**Cat. No.** CERK-745H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CERK Protein (Ser128-Ser278) with His tag was expressed in E. coli.                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Ser128-Ser278                                                                                                                                                                                                                                                                                                                                |
| <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.                                                                                                                   |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 16 kDa                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CERK ceramide kinase [ Homo sapiens (human) ]                                                                                                                              |
| <b>Official Symbol</b> | CERK                                                                                                                                                                       |
| <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>         | 64781                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_022766                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_073603                                                                                                                                                                  |
| <b>MIM</b>             | 610307                                                                                                                                                                     |
| <b>UniProt ID</b>      | Q8TCT0                                                                                                                                                                     |

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