Recombinant Mouse Cers6 Protein, Myc/DDK-tagged

Cat. No. Cers6-2124M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ceramide synthase 6 (Cers6), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Ceramide synthase that catalyzes formation of ceramide from sphinganine and acyl-CoA substrates, with high selectivity toward palmitoyl-CoA (hexadecanoyl-CoA; C16:0-CoA) as acyl donor. Can use other acyl donors, but with less efficiency. Ceramides generated by CERS6 play a role in inflammatory response. Acts as a regulator of metabolism and hepatic lipid accumulation. Under high fat diet, palmitoyl-(C16:0-) ceramides generated by CERS6 specifically bind the mitochondrial fission factor MFF, thereby promoting mitochondrial fragmentation and contributing to the development of obesity.
Molecular Mass	44.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cers6 ceramide synthase 6 [Mus musculus (house mouse)]
Official Symbol	Cers6
Synonyms	Cers6; ceramide synthase 6; L; T1; Cer; T1L; Lass6; AW544719; 4732462C07Rik; ceramide synthase 6; LAG1 homolog, ceramide synthase 6; LAG1 longevity assurance homolog 6; longevity assurance homolog 6
Gene ID	241447
mRNA Refseq	NM_172856
Protein Refseq	NP_766444
UniProt ID	Q8C172

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