LASS4 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	LASS4 (CERS4), Blocking Peptide
Full Product Name	LASS4 Blocking Peptide
Product Gene Name	CERS4 blocking peptide
Product Synonym Names	LASS4; Ceramide synthase 4; CerS4; LAG1 longevity assurance homolog 4
Host	Synthetic
Species Reactivity	Human, Monkey
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	LASS4 peptide (MBS823350) is used for blocking the activity of LASS4 antibody (MBS820953)
Molecular Weight	46,399 Da
OMIM	615334
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for CERS4 blocking peptide	Blocking (BL)
Application Notes for CERS4 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for CERS4 blocking peptide	MBS823350 is a blocking peptide targeting CERS4. Also known as LASS4 Blocking Peptide. Reactive in Human, Monkey. Host: Synthetic. The peptide is used to block Anti-LASS4 Antibody reactivity.
Other Notes	Small volumes of CERS4 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CERS4. It may not necessarily be applicable to this product.

NCBI GI #	205360977
NCBI GeneID	79603
NCBI Accession #	NP_078828.2
UniProt Primary Accession #	Q9HA82
UniProt Secondary Accession #	D6W665
UniProt Related Accession #	Q9HA82
GenBank Nucleotide #	NM_024552.2
NCBI Official Full Name	ceramide synthase 4
NCBI Official Synonym Full Names	ceramide synthase 4

NCBI Official Symbol	CERS4
NCBI Official Synonym Symbols	Trh1; LASS4
UniProt Protein Name	Ceramide synthase 4
UniProt Synonym Protein Names	LAG1 longevity assurance homolog 4
Protein Family	Ceramide synthase
UniProt Gene Name	CERS4
UniProt Synonym Gene Names	LASS4; CerS4
UniProt Entry Name	CERS4_HUMAN
NCBI Protein Information	ceramide synthase 4; LAG1 homolog, ceramide synthase 4; LAG1 longevity assurance homolog 4
UniProt Comments for CERS4	Lass4: May be either a bona fide (dihydro)ceramide synthase or a modulator of its activity. When overexpressed in cells is involved in the production of sphingolipids containing different fatty acid donors (N-linked stearoyl- (C18) or arachidoyl- (C20) ceramides) in a fumonisin B1-independent manner. Protein type: Membrane protein, multi-pass; Membrane protein, integral; DNA-binding Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: endoplasmic reticulum membrane; nuclear membrane; endoplasmic reticulum; integral to membrane Molecular Function: DNA binding; sphingosine N-acyltransferase activity Biological Process: sphingolipid metabolic process; sphingolipid biosynthetic process; ceramide biosynthetic process
Research Articles on CERS4	**1.** Co-expression of CerS2 with CerS4/CerS6 reversed the inhibitory effect of long chain ceramides on cell proliferation and the induction of apoptosis. we detected no effect on cell proliferation.
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