10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CERS2 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP22022c

Specification

CERS2 Blocking Peptide (Center) - Product Information

Primary Accession Q96G23

CERS2 Blocking Peptide (Center) - Additional Information

Gene ID 29956

Other Names
Ceramide synthase 2, CerS2, LAG1 longevity assurance homolog 2, SP260, Tumor metastasis-suppressor gene 1 protein, CERS2, LASS2, TMSG1

Target/Specificity
The synthetic peptide sequence is selected from aa 157-168 of HUMAN CERS2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CERS2 Blocking Peptide (Center) - Protein Information

Name CERS2 {ECO:0000303|PubMed:17977534, ECO:0000312|HGNC:HGNC:14076}

Function
Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward very-long-chain fatty acyl-CoA (chain length C22-C27) (PubMed:17977534, PubMed:18165233, PubMed:18541923, PubMed:19728861, PubMed:20937905, PubMed:22144673, PubMed:22661289, PubMed:26887952, PubMed:29632068). N- acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (By similarity) (PubMed:17977534, PubMed:<a

href="http://www.uniprot.org/citations/18165233" target="_blank">18165233, PubMed:18541923, PubMed:19728861, PubMed:20937905, PubMed:22144673, PubMed:22661289, PubMed:26887952, PubMed:29632068). Plays a non-redundant role in the synthesis of ceramides with very-long-chain fatty acids in kidney, liver and brain. Regulates the abundance of myelin-specific sphingolipids galactosylceramide and sulfatide that affects myelin sheath architecture and motor neuron functions (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location
Expressed in kidney, liver, brain, heart, placenta and lung.

CERS2 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CERS2 Blocking Peptide (Center) - Images

CERS2 Blocking Peptide (Center) - Background

Suppresses the growth of cancer cells. May be involved in sphingolipid synthesis.

CERS2 Blocking Peptide (Center) - References

Pan H.,et al.Genomics 77:58-64(2001).
Qin W.-X.,et al.Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
Xingfeng C.,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.