Cortistatin (CORT) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cortistatin (Cort), Recombinant Protein
Full Product Name	Recombinant Mouse Cortistatin (Cort), partial
Product Gene Name	Cort recombinant protein
Sequence	PCKNFFWKTF SSCK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	11,613 Da
Sequence Positions	96-109aa, Cytoplasmic domain
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P56469
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cort recombinant protein	The product of this gene is a neuropeptide with strong structural similarity to somatostatin. It binds to all known somatostatin receptors, and shares many pharmacological and functional properties with somatostatin, including the depression of neuronal activity. However, it also has many properties distinct from somatostatin, such as induction of slow-wave sleep, apparently by antagonism of the excitatory effects of acetylcholine on the cortex, reduction of locomotor activity, and activation of cation selective currents not responsive to somatostatin.
Other Notes	Small volumes of Cort recombinant protein 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.
Searchable Terms for Cort purchase	MBS956991 is a recombinant protein targeting Cort. Also known as Recombinant Mouse Cortistatin (Cort), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	6680984
NCBI GeneID	12854
NCBI Accession #	NP_031771.1
UniProt Primary Accession #	P56469
UniProt Secondary Accession #	Q9R1P8; A2AH76

UniProt Related Accession #	P56469
GenBank Nucleotide #	NM_007745.4
NCBI Official Full Name	cortistatin preproprotein
NCBI Official Synonym Full Names	cortistatin
NCBI Official Symbol	Cort
NCBI Official Synonym Symbols	CST; PCST
UniProt Protein Name	Cortistatin
Protein Family	Cortistatin
UniProt Gene Name	Cort
NCBI Protein Information	cortistatin
NCBI Summary for Cort	This gene encodes a member of the somatostatin family of multifunctional peptides attributed with neurohormone, neurotransmitter/modulator and autocrine/paracrine actions. The encoded preproprotein undergoes proteolytic processing to generate a mature functional peptide that can bind to somatostatin receptors. Mice lacking the encoded protein exhibit elevated levels of growth hormone in the plasma without major changes in somatic growth and have exacerbated nociceptive responses to neuropathic and inflammatory pain sensitization. Transgenic mice overexpressing the encoded protein in neurons do not express long-term potentiation in the dentate gyrus and exhibit deficits in synaptic plasticity and learning. [provided by RefSeq, Nov 2015]
Research Articles on Cort	**1.** Endogenous SST and CORT distinctly impact on DMBA-induced mammary gland tumorigenesis , in a manner that is strongly dependent on the metabolic/endocrine milieu (lean vs. obese status).
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