

Datasheet for ABIN7564400

Mesothelin Protein (MSLN) (AA 1-375) (His tag)

3 Images



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Overview

Quantity:	1 mg
Target:	Mesothelin (MSLN)
Protein Characteristics:	AA 1-375
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Mesothelin protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Gper1 Protein expressed in mammalian cells.
Sequence:	<p>MDATTPAQTV GVEIYLGPVW PAPSNSTPLA LNLALRED APGNLTGDLS EHQQYVIALF LSCLYTIFLF PIGFVGNILI LNVNIFREK MTIPDLYFIN LAAADLILVA DSLIEVFNLD EQYYDIAVLC TFMSLFLQIN MYSSVFFLTW MSFDRLALA KAMRCGLFRT KHHARLSCGL IWMASVSATL VPFTAVHLRH TEEACFCFAD VREVQWLEVT LGFIMPFAII GLCYSLIVRA LIRAHRRHGL RPRRQKALRM IFAVVLVFFI CWLPENVFIS VHLLQWTQPG DTPCKQSFRH AYPLTGHIVN LAAFSNSCLN PLIYSFLGET FRDKLRLYVE QKTSPLALNR FCHATLKAVI PDSTEQSEVR FSSAV</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Mesothelin (MSLN)
Alternative Name:	Gper1 (MSLN Products)
Background:	<p>G-protein coupled estrogen receptor 1 (Chemoattractant receptor-like 2) (G protein-coupled estrogen receptor 1) (G-protein coupled receptor 30) (Membrane estrogen receptor (mER)),FUNCTION: G-protein coupled estrogen receptor that binds to 17-beta-estradiol (E2) with high affinity, leading to rapid and transient activation of numerous intracellular signaling pathways. Stimulates cAMP production, calcium mobilization and tyrosine kinase Src inducing the release of heparin-bound epidermal growth factor (HB-EGF) and subsequent transactivation of the epidermal growth factor receptor (EGFR), activating downstream signaling pathways such as PI3K/Akt and ERK/MAPK. Mediates pleiotropic functions among others in the cardiovascular, endocrine, reproductive, immune and central nervous systems. Has a role in cardioprotection by reducing cardiac hypertrophy and perivascular fibrosis in a RAMP3-dependent manner. Regulates arterial blood pressure by stimulating vasodilation and reducing vascular smooth muscle and microvascular endothelial cell proliferation. Plays a role in blood glucose homeostasis contributing to the insulin secretion response by pancreatic beta cells. Triggers mitochondrial apoptosis during pachytene spermatocyte differentiation. Stimulates</p>

Target Details

uterine epithelial cell proliferation. Enhances uterine contractility in response to oxytocin. Contributes to thymic atrophy by inducing apoptosis. Attenuates TNF-mediated endothelial expression of leukocyte adhesion molecules. Promotes neuritogenesis in developing hippocampal neurons. Plays a role in acute neuroprotection against NMDA-induced excitotoxic neuronal death. Increases firing activity and intracellular calcium oscillations in luteinizing hormone-releasing hormone (LHRH) neurons. Inhibits early osteoblast proliferation at growth plate during skeletal development. Inhibits mature adipocyte differentiation and lipid accumulation. Involved in the recruitment of beta-arrestin 2 ARRB2 at the plasma membrane in epithelial cells. Functions also as a receptor for aldosterone mediating rapid regulation of vascular contractibility through the PI3K/ERK signaling pathway. Involved in cancer progression regulation. Stimulates cancer-associated fibroblast (CAF) proliferation by a rapid genomic response through the EGFR/ERK transduction pathway. Associated with EGFR, may act as a transcription factor activating growth regulatory genes (c-fos, cyclin D1). Promotes integrin alpha-5/beta-1 and fibronectin (FN) matrix assembly in breast cancer cells.

{ECO:0000269|PubMed:18063692, ECO:0000269|PubMed:18845638, ECO:0000269|PubMed:19179659, ECO:0000269|PubMed:19430488, ECO:0000269|PubMed:20734455, ECO:0000269|PubMed:21273787, ECO:0000269|PubMed:21673097, ECO:0000269|PubMed:22492045, ECO:0000269|PubMed:23545157, ECO:0000269|PubMed:23674134, ECO:0000269|PubMed:23871778}.

Molecular Weight:	42.5 kDa
UniProt:	Q8BMP4
Pathways:	EGFR Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Intracellular Steroid Hormone Receptor Signaling Pathway , Steroid Hormone Mediated Signaling Pathway , Carbohydrate Homeostasis , cAMP Metabolic Process , Regulation of G-Protein Coupled Receptor Protein Signaling , Positive Regulation of Endopeptidase Activity , Regulation of Carbohydrate Metabolic Process

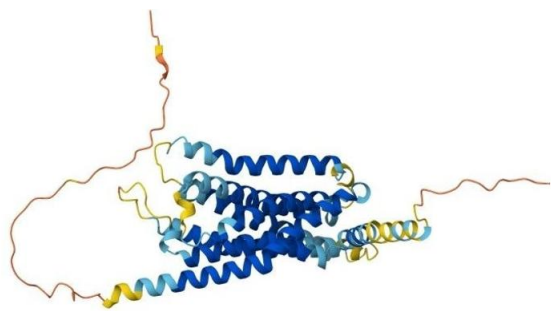
Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

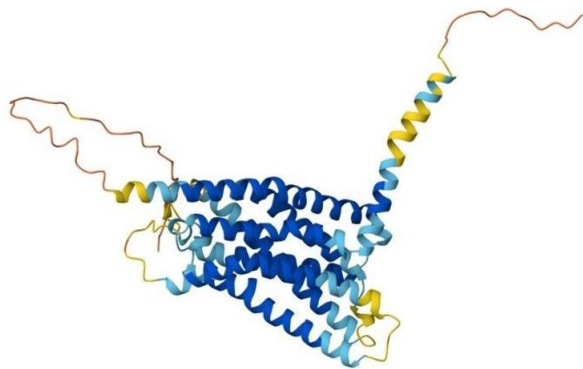
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

Images



Protein Structure

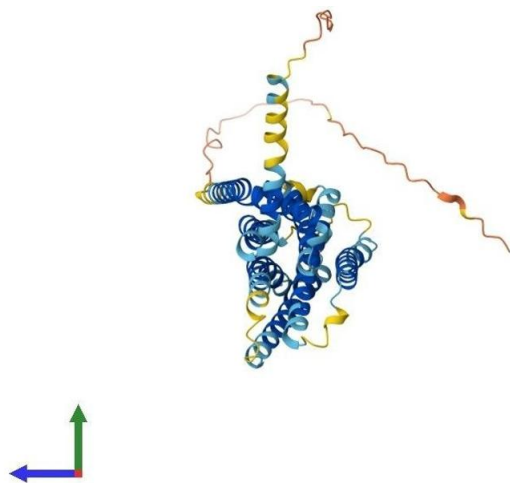
Image 1. AlphaFold protein structure prediction of Mouse Recombinant Gper1 Protein, UniprotID Q8BMP4



Protein Structure

Image 2. AlphaFold protein structure prediction of Mouse Recombinant Gper1 Protein, UniprotID Q8BMP4





Protein Structure

Image 3. AlphaFold protein structure prediction of Mouse Recombinant Gper1 Protein, UniprotID Q8BMP4