Datasheet for ABIN7563455

CIDEC Protein (AA 1-239) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	CIDEC
Protein Characteristics:	AA 1-239
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CIDEC protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cidec Protein expressed in mammalian cells.
Sequence:	MDYAMKSLSL LYPRSLSRHV AVSTAVVTQQ LVSKPSRETP RARPCRVSTA DRKVRKGIMA HSLEDLLNKV QDILKLKDKP FSLVLEEDGT IVETEEYFQA LAKDTMFMVL LKGQKWKPPS EQRKKRAQLA LSQKPTKKID VARVTFDLYK LNPQDFIGCL NVKATLYDTY SLSYDLHCYK AKRIVKEMLR WTLFSMQATG HMLLGTSSYM QQFLDATEEE QPAKAKPSSL LPACLKMLQ **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.**
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: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- 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:	CIDEC
Alternative Name:	Cidec (CIDEC Products)
Background:	Lipid transferase CIDEC (Cell death-inducing DFFA-like effector protein C) (Fat-specific protein FSP27),FUNCTION: Lipid transferase specifically expressed in white adipose tissue, which promotes unilocular lipid droplet formation by mediating lipid droplet fusion (PubMed:18334488, PubMed:22144693, PubMed:26733203, PubMed:30361435, PubMed:36477540). Lipid droplet fusion promotes their enlargement, restricting lipolysis and favoring lipid storage (PubMed:18334488, PubMed:18682832, PubMed:22144693, PubMed:26733203). Localizes on the lipid droplet surface, at focal contact sites between lipid droplets, and mediates atypical lipid droplet fusion by undergoing liquid-liquid phase separation (LLPS) and promoting directional net neutral lipid transfer from the smaller to larger lipid droplets (PubMed:18334488, PubMed:22144693). The transfer direction may be driven by the internal pressure difference between the contacting lipid droplet pair (PubMed:18334488, PubMed:22144693). Its role in neutral lipid transfer and lipid droplet enlargement is activated by the interaction with PLIN1 (PubMed:23481402). May also act as a CEBPB coactivator in the white adipose tissue to control the expression of a subset of CEBPB downstream target genes, including SOCS1, SOCS3, TGFB1, TGFBR1, ID2 and XDH (PubMed:22245780). When

Target Details

	overexpressed in preadipocytes, induces apoptosis or increases cell susceptibility to apoptosis induced by serum deprivation or TGFB treatment (By similarity). {ECO:0000250|UniProtKB:Q96AQ7, ECO:0000269|PubMed:18334488, ECO:0000269|PubMed:18682832, ECO:0000269|PubMed:22144693, ECO:0000269|PubMed:22245780, ECO:0000269|PubMed:23481402, ECO:0000269|PubMed:26733203, ECO:0000269|PubMed:30361435, ECO:0000269|PubMed:36477540}.
Molecular Weight:	27.3 kDa
UniProt:	P56198

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

