

Datasheet for ABIN7556505
CTNS Protein (AA 1-367) (His tag)



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Overview

Quantity:	1 mg
Target:	CTNS
Protein Characteristics:	AA 1-367
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ctns Protein expressed in mammalian cells.
Sequence:	MRRNWLLILT LFLLMFIEKY ESTVSLTAPP TVKLENGSST NVDITLGHPL NSTLVITFEV TFRSKNLTIV ELPDEVIVPR GEKNASFQVT SQNIGQVTVF LHGNHSNQTQ PRIRFLVIHS RIVSIINQVI GWIYFMAWSV SFYPQVIQNW RRKSVIGLSF DFLALNLTGF VAYSVFNIQL LWVPYIQEEF LLKYPNGVNP VDSNDAFFSL HAVALTLVI LQCCLYERGN QRVSWPSIGF LVLAWLFVLV TMIVAAGIT TWLQFLFCFS YIKLIITLIK YFPQAYMNFY YKSTKGWSIG GVLLDFTGGS FSLLQMFLQS YNNDQWTLIF GDPTKFGGLV FTIFFDVVFF IQHFYLYRKK PGYDQLN 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.
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, Western Blot
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Grade:	custom-made
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Target Details

Target:	CTNS
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Alternative Name:	Ctns (CTNS Products)
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Background:	Cystinosin,FUNCTION: Cystine/H(+) symporter that mediates export of cystine, the oxidized dimer of cysteine, from lysosomes (PubMed:12370309). Plays an important role in melanin synthesis by catalyzing cystine export from melanosomes, possibly by inhibiting pheomelanin synthesis (PubMed:22649030). In addition to cystine export, also acts as a positive regulator of mTORC1 signaling in kidney proximal tubular cells, via interactions with components of the v-ATPase and Ragulator complexes (PubMed:26449607). Also involved in small GTPase-regulated vesicle trafficking and lysosomal localization of LAMP2A, independently of cystine transporter activity (PubMed:28465352). {ECO:0000269 PubMed:12370309, ECO:0000269 PubMed:22649030, ECO:0000269 PubMed:26449607, ECO:0000269 PubMed:28465352}.
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Molecular Weight:	42.2 kDa
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UniProt:	P57757
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Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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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