

Datasheet for ABIN7546921
CTNS Protein (AA 1-367) (His tag)



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Overview

Quantity:	1 mg
Target:	CTNS
Protein Characteristics:	AA 1-367
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNS protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CTNS Protein expressed in mammalian cells.
Sequence:	<p>MIRNWLTFI LFPLKLVEKC ESSVSLTVPP VVKLENGSST NVSLTLRPPL NATLVITFEI</p> <p>TFRSKNITIL ELPDEVVPP GVTNSSFQVT SQNVGQLTVY LHGNHSNQTG PRIRFLVIRS</p> <p>SAISIINQVI GWIYFVAWSI SFYPQVIMNW RRKSVIGLSF DFVALNLTGF VAYSVFNIGL</p> <p>LWVPYIKEQF LLKYPNGVNP VNSNDVFFSL HAVVLTLLII VQCCLYERGG QRVSWPAIGF</p> <p>LVLAWLFAFV TMIVAAGVT TWLQFLFCFS YIKLAVTLVK YFPQAYMNFY YKSTEGWSIG</p> <p>NVLLDFTGGS FSLLQMFLQS YNNDQWTLIF GDPTKFG LGV FSIVFDVFF IQHFCLYRKR</p> <p>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.</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:	CTNS
Alternative Name:	CTNS (CTNS Products)
Background:	<p>Cystinosin,FUNCTION: Cystine/H(+) symporter that mediates export of cystine, the oxidized dimer of cysteine, from lysosomes (PubMed:11689434, PubMed:18337546, PubMed:22232659, PubMed:29467429, PubMed:33208952, PubMed:15128704, PubMed:36113465). 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:36113465). Also involved in small GTPase-regulated vesicle trafficking and lysosomal localization of LAMP2A, independently of cystine transporter activity (By similarity).</p> <p>{ECO:0000250 UniProtKB:P57757, ECO:0000269 PubMed:11689434, ECO:0000269 PubMed:15128704, ECO:0000269 PubMed:18337546, ECO:0000269 PubMed:22232659, ECO:0000269 PubMed:22649030, ECO:0000269 PubMed:29467429, ECO:0000269 PubMed:33208952, ECO:0000269 PubMed:36113465}.</p>

Target Details

Molecular Weight: 41.7 kDa

UniProt: [O60931](#)

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