

Recombinant Human CTNS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CTNS-4113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTNS MS Standard C13 and N15-labeled recombinant protein (NP_004928) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a seven-transmembrane domain protein that functions to transport cystine out of lysosomes. Its activity is driven by the H ⁺ electrochemical gradient of the lysosomal membrane. Mutations in this gene cause cystinosis, a lysosomal storage disorder. Alternative splicing results in multiple transcript variants.
Molecular Mass	41.6 kDa
AA Sequence	MIRNWLTI FILFPLKLVEKCESSVSLTVPPVVKLENGSSTNVSLTLRPPLNATLVITFEIT FRSKNITILELPDEVVPPPGVTNSSFQVTSQNVGQLTVYLHGNHSNQTGPRIRFLVIR SSAISIIINQVIGWIYFVAWSISFYYPQVIMNWRRKSVIGLSFDFVALNLTG FVAYSVFNIG LLWVPYIKEQFLLKYPNGVNPVNSNDVFFSLHAVVLTLLIIVQCCLYERGGQQRVSWPA IGFLVLAWLFAFVTMIVA AVGVITWLQFLFCFSYIKLAVTLVKYFPQAYMNFYYKSTEG WSIGNVLLDFTGGSFSLLQMFLQSYNNDQWTLIFGDPTKFG LGVFSIVFDVFFFIQHF CLYRKRPGYDQLNTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

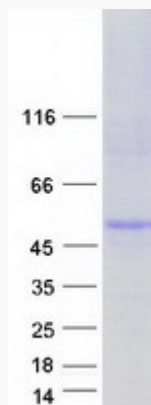
GENE INFORMATION

Gene Name	CTNS cystinosis, lysosomal cystine transporter [Homo sapiens (human)]
Official Symbol	CTNS
Synonyms	CTNS; cystinosis, lysosomal cystine transporter; cystinosis, nephropathic; cystinosis; CTNS LSB; PQLC4; CTNS-LSB;
Gene ID	1497
mRNA Refseq	NM_004937
Protein Refseq	NP_004928
MIM	606272
UniProt ID	O60931

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SDS-PAGE

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