

Product Information

MemDX™ Membrane Protein Human CTNS (Cystinosis, lysosomal cystine transporter, transcript variant 2) for Antibody Discovery

Cat. No.: **MP1072J**

This product is for research use only and is not intended for diagnostic use.

This product is a 41.6 kDa Human CTNS membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CTNS

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

41.6 kDa

TMD

7

Sequence

MIRNWLTFILFPLKLVEKCESSVSLTVPPVVKLENGSSTNVSLTRPPLNATLVITFEITFRSKNITIL
ELPDEVVPPGVNTSSFQVTSQNVGQLTVYLHGNHSNQTGPRIRFLVIRSSAISIIINQVIGWIYFVAWSI
SFYPQVIMNWRKSVIGLSFDFVALNLTGFVAYSVFNIGLLWVPYIKEQFLLKYPNGVNPVNSNDVFFSL
HAVVLTIIIVQCCLYERGGQRVSWPAIGFLVLAWLFAFVTMIVAAGVITWLQFLFCFSYIKLAVTLVK
YFPQAYMNFYYKSTEGWSIGNVLLDFTGGSFSLQMFLQSYNNDQWTLIFGDPTKFGGLGVFSIVFDVVF
IQHFCLYRKRPGYDQLN

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

CTNS

Full Name

Cystinosin, lysosomal cystine transporter

Introduction

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.

Alternative Names

PQLC4; SLC66A4; CTNS-LSB

Gene ID

[1497](#)

UniProt ID

[O60931](#)