Recombinant Human SLC7A1

Cat. No. SLC7A1-26816TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CAT1 with an N terminal proprietary tag. Predicted MW 32.45kDa.
Species	Human
Source	Wheat Germ
ProteinLength	62 amino acids
Description	High affinity cationic amino acid transporter 1 is a protein that in humans is encoded by the SLC7A1 gene.
Molecular Weight	32.450kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	RYQPEQPNLVYQMASTSDELDPADQNELASTNDSQLGFLPEAEMFSLKTILSPKNM EPSKIS
Sequence Similarities	Belongs to the amino acid-polyamine-organocation (APC) superfamily. Cationic amino acid transporter (CAT) (TC 2.A.3.3) family.

GENE INFORMATION

Gene Name	SLC7A1 solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 [Homo sapiens]
Official Symbol	SLC7A1
Synonyms	SLC7A1; solute carrier family 7 (cationic amino acid transporter, y+ system), member 1; ATRC1, ERR; high affinity cationic amino acid transporter 1; amino acid transporter; cationic 1; CAT 1; ecotropic retroviral receptor; HCAT1; REC1L;
Gene ID	6541
mRNA Refseq	NM_003045
Protein Refseq	NP_003036
MIM	104615
Uniprot ID	P30825
Chromosome Location	13q12-q14
Pathway	Amino acid transport across the plasma membrane, organism-specific biosystem;

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	SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport of inorganic cations/anions and amino acids/oligopeptides, organism-specific biosystem;
Function	amino acid transmembrane transporter activity; arginine transmembrane transporter activity; receptor activity;

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