Recombinant Human SLC22A3

Cat. No. SLC22A3-31412TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SLC22A3 with N terminal proprietary tag; Predicted MW 32.89 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	66 amino acids
Description	Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein.
Molecular Weight	32.890kDa inclusive of tags
Tissue specificity	Expressed in placenta, skeletal muscle, prostate, aorta, liver, fetal lung, salivary gland, adrenal gland, kidney and brain cortex. No expression detected in spleen.
Form	Liquid
Purity	Proprietary Purification

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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.
Sequences of amino acids	CQRYLLEAANDSASATSALSCADPLAAFPNRSAPLVPCRGGWRYAQAHSTIVSEFD LVCVNAWMLD
Sequence Similarities	Belongs to the major facilitator superfamily. Organic cation transporter family.

GENE INFORMATION

Gene Name	SLC22A3 solute carrier family 22 (extraneuronal monoamine transporter), member 3 [Homo sapiens]
Official Symbol	SLC22A3
Synonyms	SLC22A3; solute carrier family 22 (extraneuronal monoamine transporter), member 3; solute carrier family 22 member 3; EMT; OCT3;
Gene ID	6581
mRNA Refseq	NM_021977
Protein Refseq	NP_068812
MIM	604842
Uniprot ID	O75751
Chromosome	6q25.3

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Location	
Pathway	Organic cation transport, organism-specific biosystem; Organic cation/anion/zwitterion transport, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport of glucose and other sugars, bile salts and organic acids, metal ions and amine compounds, organism-specific biosystem;
Function	dopamine transmembrane transporter activity; ion transmembrane transporter activity; organic cation transmembrane transporter activity; protein binding; quaternary ammonium group transmembrane transporter activity;

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