

Recombinant Full Length Human SLC18A1 Protein

Cat. No. SLC18A1-487HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human VMAT1 with N terminal proprietary tag; Predicted MWt 80.34 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	494 amino acids
Description	The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the monoaminergic systems that have been implicated in several human neuropsychiatric disorders. The transporter is a site of action of important drugs, including reserpine and tetrabenazine (Peter et al.
Form	Liquid
Molecular Mass	80.340kDa inclusive of tags
AA Sequence	MLRPILDAPQRLLKEGRASRQLVLVVVFVALLLDNMLFTV VVPIVPTFLYDMEFKEVN SSLHLGHAGSSPHALASPAFST IFSFFNNNTVAVEESVPSGIAWMNDTASTIPPPAT EAISA HKNNCLQGTGFLEEETTRVGVLFAKAVMQLLVNPFGPL TNRIGYHIPMFA GFVIMFLSTVMFAFSGTYTLLFVARTLQ GIGSSFSSVAGLGMLASVYTDDHERGRA MGTA LGGLALGL LVGAPFGSVMYEFVGKSAPFLILAFLLD GALQLCILQP SKVSP ESAKGTPLFMLLKDPYILVAAGLAFLPASVSYLIG TNLFGVLANKMGRWLCSLIGMLV

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VGTSLLCVPLAHNIFGL IGPNAGLGLAIGMVDSSMMPIMGHLVDLRHTSVYGSVYAI
ADVAFCMGFAIGPSTGGAIVKAIGFPWLMVITGVINIVYA PLCYYLRSPPAKEEKLAIL
SQDCPMETRMATQKPTKEFP LGEDSDEEPPDHEE

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name [SLC18A1 solute carrier family 18 \(vesicular monoamine\), member 1 \[Homo sapiens \]](#)

Official Symbol [SLC18A1](#)

Synonyms SLC18A1; solute carrier family 18 (vesicular monoamine), member 1; VAT1, VMAT1; chromaffin granule amine transporter; CGAT

Gene ID [6570](#)

mRNA Refseq [NM_001135691](#)

Protein Refseq [NP_001129163](#)

MIM [193002](#)

UniProt ID [P54219](#)

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