

Recombinant Human Vesicle Amine Transport Protein 1 Homolog (T. californica), His-tagged

Cat. No. VAT1-1339H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	VAT1 (Synaptic vesicle membrane protein VAT-1 homolog) belongs to the quinone oxidoreductase subfamily of zinc-containing alcohol dehydrogenase proteins. Synaptic vesicles are responsible for regulating the storage and release of neurotransmitters in the nerve terminal. This protein increased expression in glioblastomas and on wounding, in basal keratinocytes. This expression is calcium ion-dependent.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 100 mM NaCl.
Molecular Weight	44.1 kDa (413 aa), confirmed by MALDI-TOF
Purity	> 90 % by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MSDEREVAEA ATGEDASSPP PKTEAASDPQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

acids

HPAASEGAAA AAASPPLLRC LVLTFGGGYD KVKLQSRPAA PPAPGPGQLT
 LRLRACGLNF ADLMARQGLY DRLPPLPVTP GMEGAGVVIA VGEGVSDRKA
 GDRVMVLNRS GMWQEEVTVP SVQTFLIPEA MTFEEAAALL VNYITAYMVL
 FDFGNLQPGH SVLVHMAAGG VGMAAVQLCR TVENVTVFGT ASASKHEALK
 ENGVTHPIDY HTTDYVDEIK KISPKGVDIV MDPLGGSDTA KGYNLLKPMG
 KVVTYGMANL LTGPKRNLMA LARTWWNQFS VTALQLLQAN RAVCGFHLGY
 LDGEVELVSG VVARLLALYN QGHIKPHIDS VWPFEKVADA MKQMQEKKNV
 GKVLLVPGPE KEN

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name VAT1 vesicle amine transport protein 1 homolog (T. californica) [Homo sapiens]

Official Symbol VAT1

Synonyms VAT1; vesicle amine transport protein 1 homolog (T. californica); VATI; FLJ20230; synaptic vesicle membrane protein VAT-1 homolog; membrane protein of cholinergic synaptic vesicles

Gene ID 10493

mRNA Refseq NM_006373

Protein Refseq NP_006364

MIM 604631

UniProt ID Q99536

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Chromosome Location	17q21
Function	binding; oxidoreductase activity; zinc ion binding