

## VAT1 Human

**Description:**VAT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 413 amino acids (1-393 a.a.) and having a molecular mass of 44.1kDa. VAT1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-1018

For research use only.

**Synonyms:**Synaptic vesicle membrane protein VAT-1 homolog, VAT1, VATI.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MSDEREVAEA ATGEDASSPP  
PKTEAASDPQ HPAASEGAAA AAASPPLLRC LVLTFGGYD KVKLQSRPAA PPAPGPGQLT  
LRLRACGLNF ADLMARQLY DRLPPLPVTP GMEGAGVVIA VEGEVSDRKA GDRVMVLNRS  
GMWQEEVTVP SVQTFLLPEA MTFEEAAALL VNYITAYMVL FDFGNLQPGH SVLVHMAAGG  
VGMAAVQLCR T

**Purity:**Greater than 90% as determined by SDS-PAGE.

**Formulation:**

VAT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Synaptic vesicle membrane protein VAT-1 homolog (VAT1) is a member of the quinone oxidoreductase subfamily of zinc-containing alcohol dehydrogenase proteins. Synaptic vesicles are in charge of regulating the storage and release of neurotransmitters in the nerve terminal. VAT1 has an increased calcium ion-dependent expression in glioblastomas and on wounding, in basal keratinocytes. VAT1 is an abundant integral membrane protein of cholinergic synaptic vesicles and is believed to be involved in vesicular transport.

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