

**VAT1, 1-393aa, Human, His tag, E.coli**

**Cat.NO.: TP04460**

3th Edition

**Synonyms:** Synaptic vesicle membrane protein VAT-1 homolog, VAT1, FLJ20230, vesicle amine transport protein 1 homolog

**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. Recombinant human VAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

**Molecular Weight:** 44.1kDa (413aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMSDEREVAEAATGEDASSPPPKTEAASDPQHAAASEGAAAAAASPELLRCLVLT  
GFGGYDKVKLQSRPAAPPAPGPGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTPGMEGAGVVIAVGEGVSDR  
KAGDRVMVLNRSWMWQEEVTVPSVQTFLIPEAMTFEEAALLVNYITAYMVLDFGNLQPGHSLVHMAAGGVGM  
AAVQLCRTLQENVTVFGTASASKHEALKENGVTHTPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMG  
KVVTYGMANLLTGPKRNLALARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHK  
PHIDSVWPFQKADAMKQMQEKKNVGVKLLVPGPEKEN

**Purity:** > 95% by HPLC

**Concentration:** 0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.