
Product Data Sheet

Product Name: VAT1 Human
 Cat. No.: GP24980
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Synaptic vesicle membrane protein VAT-1 homolog; VAT1; VATI.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSDEREVAEA ATGEDASSPP PKTEAASDPQ HPAASEGAAA AAASPPLLRC LVLTGFGGYD KVKLQSRPAA PPAPGPGQLT LRLRACGLNF ADLMARQGLY DRLPPLPVTG 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.		
Formulation	VAT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.		

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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