Recombinant human VAT1 protein

Catalog Number: ATGP1339

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-393aa

UniProt No.
Q99536

NCBI Accession No.
NP_006364

Alternative Names
Synaptic vesicle membrane protein VAT-1 homolog, VATI, FLJ20230, vesicle amine transport protein 1 homolog

PRODUCT SPECIFICATION

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

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Recombinant human VAT1 protein

Catalog Number: ATGP1339

Amino acid Sequence

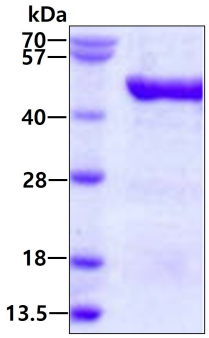
<MGSSHHHHHH SSGLVPRGSH> MSDEREVAEA ATGEDASSPP PKTEAASDPQ HPAASEGAAA AAASPPLLRC LVLTGFGGYD KVKLQSRPAA PPAPGPGQLT LRLRACGLNF ADLMARQGLY DRLPPLPVTP GMEGAGVVIA VGEGVSDRKA GDRVMVLNRS GMWQEEVTVP SVQTFLIPEA MTFEEAAALL VNYITAYMVL FDFGNLQPGH SVLVHMAAGG VGMAAVQLCR TVENVTVFGT ASASKHEALK ENGVTHPIDY HTTDYVDEIK KISPKGVDIV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

General References

Koch J., et al. (2003) Arch. Dermatol. Res. 295:203-210
Mertsch S., et al. (2009) Neuropathol. Appl. Neurobiol. 35:342-352

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.