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Recombinant human VTA1 protein

Catalog Number: ATGP1419

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-307aa

UniProt No.
Q9NP79

NCBI Accession No.
NP_057569.2

Alternative Names
vacuolar protein sorting-associated protein VTA1 homolog, DRG-1, DRG1, LIP5, SBP1

PRODUCT SPECIFICATION

Molecular Weight
36.4 kDa (331aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

Purity
> 95% 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
VTA1 (Vps20-associated 1 homolog), also known as LIP5 (LYST-interacting protein 5), DRG1 (Dopamine-responsive protein DRG-1), SBP1 (SKD1 bindingprotein 1), belongs to the VTA1 family. This protein Involved in the endosomal multivesicular bodies (MVB) pathway. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. Also, VTA1 is known to interact with CHMP1B, CHMP2A, CHMP5, VPS4B, KIAA0174 (IST1) and

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possibly CHMP3. Recombinant human VTA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

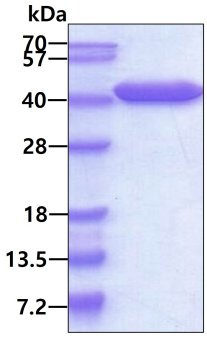
<MGSSHHHHHH SSGLVPRGSH MGSH>MAALAP LPPLPAQFKS IQHHLRTAQE HDKRDPVVAY YCRLYAMQTG MKIDSKTPEC RKFLSKLMDQ LEALKKQLGD NEAITQEIVG CAHLENYALK MFLYADNEDR AGRFHKNMIK SFYTASLLID VITVFGELTD ENVKHRKYAR WKATYIHNCL KNGETPQAGP VGIEEDNDIE ENEDAGAASL PTQPTQPSSS STYDPSNMPS GNYTGIQIPP GAHAPANTPA EVPHSTGVAS NTIQPTPQTI PAIDPALFNT ISQGDVRLTP EDFARAQKYC KYAGSALQYE DVSTAVQNLQ KALKLLTTGR E

General References

Ward D.M., et al. (2005) J. Biol. Chem. 280:10548-10555
Shim S., et al. (2008) Mol. Biol. Cell 19:2661-2672

DATA

SDS-PAGE



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