

VTA1 recombinant protein

VTA1, 1-307aa, Human, His tag, E Coli

CATALOG # AAA11823	REACTIVITY Human	APPLICATIONS SDS-Page
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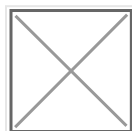
PRODUCT SYNONYMS

VTA1; 1-307aa; Human; His tag; E Coli; vacuolar protein sorting-associated protein VTA1 homolog; DRG-1; DRG1; LIP5; SBP1; VTA1 recombinant protein

PRODUCT SPECIFICATIONS

Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMAALAP LPPLPAQFKS IQHHLRTAQE HDKRDPPVAY 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
Sequence Length	307
Applicable Applications for VTA1 recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	1-307aa
Preparation and Storage	Can be stored at 2°C to 8°C (1 week). For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3µg by SDS-PAGE under reducing conditions and can be visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for VTA1 recombinant protein	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 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.
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Product Categories/Family for VTA1 recombinant protein	Transportation
References	Ward D.M., et al. (2005) J. Biol. Chem. 280:10548-10555; Shim S., et al. (2008) Mol. Biol. Cell 19:2661-2672

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361741
NCBI GeneID	51534
NCBI Accession #	NP_057569.2
NCBI GenBank Nucleotide #	NM_016485.4
UniProt Accession #	Q9NP79; Q5TGM1; Q6IAE8; Q9H0R2; Q9H3K9; Q9P0Q0; B4DW55; E1P594; E7ETQ7
Molecular Weight	36.4kDa (331aa), confirmed by MALDI-TOF
NCBI Official Full Name	vacuolar protein sorting-associated protein VTA1 homolog isoform a
NCBI Official Synonym Full Names	vesicle trafficking 1
NCBI Official Symbol	VTA1
NCBI Official Synonym Symbols	DRG1; LIP5; SBP1; DRG-1; My012; C6orf55; HSPC228
NCBI Protein Information	vacuolar protein sorting-associated protein VTA1 homolog
UniProt Protein Name	Vacuolar protein sorting-associated protein VTA1 homolog
UniProt Gene Name	VTA1
UniProt Synonym Gene Names	C6orf55; DRG-1; LIP5; SBP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.