

VTA1, 1-307aa, Human, His tag, E.coli

Cat.NO.: TP04489

3th Edition

Synonyms: vacuolar protein sorting-associated protein VTA1 homolog, DRG-1, DRG1, LIP5, SBP1

Description: VTA1 (Vps20-associated 1 homolog), also known as LIP5 (LYST-interacting protein 5), DRG1 (Dopamine-responsive protein DRG-1), SBP1 (SKD1 binding protein 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.

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

Molecular Weight: 36.5kDa (331aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSHMAALAPLPLPAQFKSIQHHLRRTAQEHDKRDPVVAYYCRLYAMQTGMKID
SKTPECRKFLSKLMDQLEALKKQLGDNEAITQEIVGCAHLENYALKMFLYADNEDRAGRFRHKNMIKSFYASLLIDVI
TVFGELTDENVKHRKYARWKATYIHNCCLKNGETPQAGPVGIEEDNDIEENEDAGAASLPTQPTQPSSSSTYDPSNM
PSGNYTGIQIPPGAHPANTPAEVPHESTGVASNTIQPTPQTIPAI DPALFNTISQGDVRLTPEDFARAQKYCKYAGSA
LQYEDVSTAVQNLQKALKLLTTGRE

Purity: > 95% by HPLC

Concentration: 1mg/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.