

# Recombinant human VPS25 protein

Catalog Number: ATGP1447

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-176aa

**UniProt No.**

Q9BRG1

**NCBI Accession No.**

NP\_115729

**Alternative Names**

Vacuolar protein sorting 25 homolog, Dermal papilla-derived protein 9, DERP9, ELL-associated protein of 20 kDa, EAP20, ESCRT-II complex subunit VPS25

## PRODUCT SPECIFICATION

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**Molecular Weight**

23.3 kDa (200aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.1M NaCl

**Purity**

&gt; 85% 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

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**Description**

VPS25, also known as vacuolar protein-sorting-associated protein 25, consists of the ESCRT-II complex (endosomal sorting complex required for transport II), which is required for multivesicular body (MVB) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. The ESCRT-II complex is involved in the recruitment of the ESCRT-III complex. The ESCRT-II complex may play a role in transcription regulation, possibly via its

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interaction with ELL. Recombinant human VPS25 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

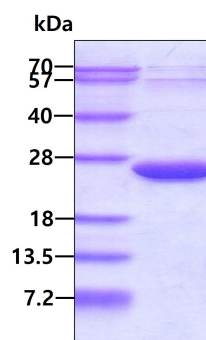
<MGSSHHHHHH SSGLVPRGSH MGSH>MAMSFE WPWQYRFPPF FTLQPNVDTR QKQLAAWCSL VLSFCRLHKQ  
SSMTVMEAQE SPLFNNVKLQ RKLVPESIQI VLEELRKKGN LEWLDKSKSS FLIMWRRPEE WGKLIYWVS RSGQNNSVFT  
LYELTNGEDT EDEEFHGLDE ATLLRALQAL QQEHKAEIIT VSDGRGVKFF

## General References

Bailey,S.D. et al. (2010) Diabetes Care 33 (10), 2250-2253  
Talmud,P.J. et al. (2009) Am. J. Hum. Genet. 85 (5), 628-642

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.