## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-213aa
UniProt No.
Q9UQN3

## NCBI Accession No.

NP_054762.2

## Alternative Names

Charged multivesicular body protein 2B, Charged multivesicular body protein 2b, CHMP2.5, Chromatin-modifying protein 2b, CHMP2b, Vacuolar protein sorting-associated protein 2-2, Vps2-2, hVps2-2

## PRODUCT SPECIFICATION

## Molecular Weight

26.1 kDa (233aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

## Concentration

$0.5 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer ( pH 8.0 ) containing $10 \%$ glycerol, $1 \mathrm{mM} \mathrm{DTT}$,0.1 M NaCl .

## Purity

> 90\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

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

## BACKGROUND

## Description

CHMP2B belongs to the vacuolar sorting protein family. It is a component of the ESCRT-III complex. This complex is crucial for sorting endosomal articles into multivesicular bodies (MVBs), and are also required for the formation of these bodies. CHMP2B widely expressed in brain, heart, skeletal muscle, small intestine, pancreas, lung, placenta and leukocytes. Recombinant human CHMP2B 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> MASLFKKKTV DDVIKEQNRE LRGTQRAIIR DRAALEKQEK QLELEIKKMA KIGNKEACKV LAKQLVHLRK QKTRTFAVSS KVTSMSTQTK VMNSQMKMAG AMSTTAKTMQ AVNKKMDPQK TLQTMQNFQK
ENMKMEMTEE MINDTLDDIF DGSDDEEESQ DIVNQVLDEI GIEISGKMAK APSAARSLPS ASTSKATISD EEIERQLKAL GVD

## General References

Rizzu P., et al. (2006) Am J Med Genet B Neuropsychiatr Genet. 141B(8):944-6.
Stuchell-Brereton MD., et al. (2007) Nature. 449(7163):740-4.

## DATA

## SDS-PAGE



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

