

Human CNPY4 Protein (His Tag)

Catalog Number: 13355-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

PRAT4B; 2610019P18Rik

Protein Construction:

A DNA sequence encoding the human CNPY4 (Q8N129) (Met1-Leu248) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gly 22

Molecular Mass:

The recombinant human CNPY4 consists of 238 amino acids and predicts a molecular mass of 27.4 KDa. It migrates as an approximately 32 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

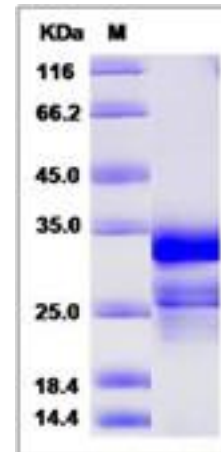
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CNPY4 belongs to the canopy family. CNPY4 interacts with toll-like receptor 4 (TLR4) and plays a role in the regulation of the cell surface expression of TLR4. Toll-like receptors (TLRs) recognize microbial products and induce immune responses. Lipopolysaccharide is recognized by the receptor complex consisting of TLR4 and MD-2. As CNPY4, PRAT4B also regulates cell surface expression of TLR4. PRAT4B has a signal peptide followed by a mature peptide. It is associated with the hypoglycosylated, immature form of TLR4 but not with MD-2 or TLR2.

References

- 1.Stelzl U, *et al.* (2005) A human protein-protein interaction network: a resource for annotating the proteome. *Cell*. 122(6):957-68.
- 2.Hocking JC, *et al.* (2010) Distinct roles for Robo2 in the regulation of axon and dendrite growth by retinal ganglion cells. *Mech Dev.* 127(1-2):36-48.
- 3.Hart BE, *et al.* (2012) Cell surface trafficking of TLR1 is differentially regulated by the chaperones PRAT4A and PRAT4B. *J Biol Chem.* 287(20):16550-62.

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