

Human VWC2 / Brorin Protein (His Tag)

Catalog Number: 12071-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

PSST739; UNQ739; A930041G11Rik; cradin; G11; PSST739; UNQ739

Protein Construction:

A DNA sequence encoding the human VWC2 (NP_055747.1) (Met 1-Met 325) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % 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: Ser 28

Molecular Mass:

The recombinant human VWC2 consists of 309 amino acids and predicts a molecular mass of 34.1 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh VWC2 is approximately 45 kDa due to glycosylation.

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:

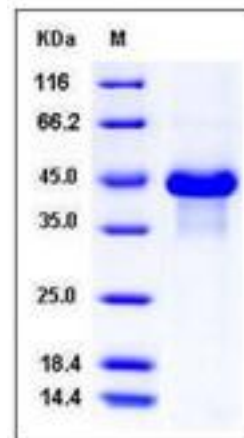
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Brorin, also known as brain-specific chordin-like protein, von Willebrand factor C domain-containing protein 2 and VWC2, is a secreted protein which contains two VWFC domains. VWC2 / Brorin is a BMP antagonist which may play a role in neural development. It promotes cell adhesion. VWC2 / Brorin is a unique member of the chordin family. It inhibited the activity of bone morphogenetic protein 2 (BMP2) and BMP6 in mouse preosteoblastic MC3T3-E1 cells. Mouse Brorin was predominantly expressed in neural tissues in embryos and also predominantly expressed in the adult brain. In the brain, the expression was detected in neurons, but not glial cells. The neural tissue-specific expression profile of Brorin is quite distinct from that of any other member of the Chordin family. VWC2 / Brorin protein promoted neurogenesis, but not astrogenesis, in mouse neural precursor cells. VWC2 / Brorin is a novel secreted BMP antagonist that potentially plays roles in neural development and functions.

References

- 1.Koike,N. et al., 2007, J Biol Chem. 282 (21):15843-50.
- 2.Elis,S. et al., 2009,Mol Reprod Dev. 76 (11):1043-55.
- 3.Zhang,J.L. et al., 2010,PLoS One. 5 (9):e12846.

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