

# Recombinant Human VWC2/Brorin Protein (His Tag)

Catalog Number:PKSH030918



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

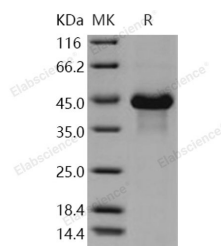
## Description

<b>Synonyms</b>	PSST739;UNQ739
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Met 325
<b>Accession</b>	NP_940972.2
<b>Calculated Molecular Weight</b>	34.1 kDa
<b>Observed molecular weight</b>	45 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

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

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that potentially plays roles in neural development and functions.

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