



Recombinant Protein Technical Manual
Recombinant Human VWC2/Brorin Protein (His Tag)
RPES3924

Product Data:

Product SKU: RPES3924

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_940972.2

Protein Information:

Molecular Mass: 34.1 kDa

AP Molecular Mass: 45 kDa

Tag: C-His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: PSST739;UNQ739

Immunogen Information:

Sequence: Met 1-Met 325

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 that potentially plays roles in neural development and functions.