Recombinant RIMB2 protein (His tag)

Catalog Number	548649
Synonyms	RIM-BP2
Species	Human
Expression System	E. coli
Accession	O15034
Molecular Weight	Predictes a molecular mass of 33.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	296-585
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 296-585 aa (O15034) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant RIMS-binding protein 2 (RIM-BP2) fragment (amino acids 296-585), a high-purity protein designed to study the specific roles of its Fibronectin type-III domains in synaptic transmission mechanisms. This 290-amino acid fragment serves as an essential tool for investigating protein interactions at the synapse. RIMS-binding protein 2 (RIM-BP2) is a human protein that functions as a bifunctional linker in synaptic transmission, simultaneously interacting with RIMS1, RIMS2, CACNA1D, and CACNA1B. It localizes to the cell membrane and synapse, specifically at the synaptic plasma membrane, where it plays a critical role in coordinating synaptic protein complexes. The provided fragment encompasses two Fibronectin type-III domains (297-390 and 393-475), enabling focused research on domain-specific functions within neuronal communication pathways.