Recombinant UNC5A protein (His tag)

Catalog Number	547550
Synonyms	Protein unc-5 homolog 1; Protein unc-5 homolog A
Species	Human
Expression System	E. coli
Accession	Q6ZN44
Molecular Weight	Predictes a molecular mass of 31.39 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	42-306
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 42-306 aa (Q6ZN44) 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	Recombinant Human Netrin Receptor UNC5A Fragment (aa 42-306) – a high-purity protein fragment encompassing the Ig-like, Ig-like C2-type, and TSP type-1 domains, ideal for investigating axon guidance, neurite outgrowth, and netrin signaling pathways in neuroscience and cell biology research. Netrin receptor UNC5A (Unc-5 homolog A) is a single-pass type I membrane protein expressed in Homo sapiens, localized to the cell membrane, membrane rafts, and neuronal projections. It functions as a receptor for netrin, playing a critical role in axon guidance by promoting neurite outgrowth in response to NTN1 and mediating axon repulsion in developing neuronal growth cones. UNC5A associates with DCC to trigger repulsive signaling and acts as a dependence receptor, inducing apoptosis when unbound to netrin ligand. Its surface expression is regulated by interactions such as with PRKCABP, highlighting its importance in neural development and cellular survival mechanisms.