Recombinant INSY2 protein (His tag)

Catalog Number	549541
Synonyms	InSyn2
Species	Human
Expression System	E. coli
Accession	Q6ZSG2
Molecular Weight	Predictes a molecular mass of 11.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	355-439
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 355-439 aa (Q6ZSG2) 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 Inhibitory Synaptic Factor 2A (InSyn2) Fragment (aa 355-439) is a highly stable and soluble protein unit designed for structural and biochemical studies. This 85-amino acid fragment, derived from the human InSyn2 protein, represents a key region involved in inhibitory synapse scaffolding, enabling researchers to investigate mechanisms of neuronal inhibition with precision. Inhibitory Synaptic Factor 2A (InSyn2) is a crucial component of the protein machinery at inhibitory synapses, where it functions as a scaffold protein. These synapses are essential for dampening neuronal activity through postsynaptic hyperpolarization, a process fundamental to central nervous system function. By shaping and orchestrating information flow through neuronal networks, InSyn2 helps generate precise neural coding necessary for proper brain function. The protein is localized to the postsynaptic density, where it contributes to the structural and functional organization of inhibitory neurotransmission. This recombinant fragment provides a focused tool for studying these critical processes without interference from other protein domains.