Recombinant NETO2 protein (His tag)

Catalog Number	545463
Synonyms	Brain-specific transmembrane protein containing 2 CUB and 1 LDL-receptor class A domains protein 2
Species	Human
Expression System	E. coli
Accession	Q8NC67
Molecular Weight	Predictes a molecular mass of 38.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	23-347
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 23-347 aa (Q8NC67) 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 Neuropilin and Tolloid-like Protein 2 (NETO2) Fragment (aa 23-347) – a high-purity protein designed for studying the functional roles of its CUB and LDL-receptor class A domains. This fragment serves as an essential tool for investigating kainate receptor modulation and synaptic transmission mechanisms in neuronal research. Neuropilin and tolloid-like protein 2 (NETO2) is a brain-specific transmembrane protein that functions as an accessory subunit for neuronal kainate-sensitive glutamate receptors, specifically GRIK2 and GRIK3. It enhances kainate receptor channel activity by slowing decay kinetics and increasing open probability, thereby modulating agonist sensitivity and influencing synaptic transmission through prolonged excitatory postsynaptic currents. As a single-pass type I membrane protein localized to the membrane, NETO2 plays a critical role in regulating synaptic signaling without affecting receptor surface expression. The provided fragment encompasses the key functional domains—CUB 1, CUB 2, and LDL-receptor class A—enabling targeted studies on domain-specific interactions and their impact on receptor function.