Recombinant LSAMP protein (His tag)

Catalog Number	538023
Synonyms	LSAMP; IgLON family member 3
Species	Human
Expression System	E. coli
Accession	Q13449
Molecular Weight	Predictes a molecular mass of 32.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	39-315
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 39-315 aa (Q13449) 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 LSAMP Fragment (39-315) – a high-purity protein fragment encompassing the Ig-like C2-type 2 and 3 domains of Limbic system-associated membrane protein (LSAMP), designed for targeted studies of neuronal growth and axon guidance mechanisms. LSAMP, a member of the IgLON family, mediates selective neuronal growth and axon targeting, playing a critical role in guiding developing axons and remodeling mature circuits within the limbic system. It is essential for the normal growth of the hippocampal mossy fiber projection. The protein is localized to the cell membrane via a GPI-anchor, facilitating its involvement in cell-surface interactions relevant to neural circuit formation and maintenance.