Recombinant OLFL3 protein (His tag)

Catalog Number	549657
Synonyms	HNOEL-iso; hOLF44
Species	Human
Expression System	E. coli
Accession	Q9NRN5
Molecular Weight	Predictes a molecular mass of 45.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	22-406
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 22-406 aa (Q9NRN5) 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 Olfactomedin-like protein 3 (OLFML3) fragment (aa 22-406) is a high-purity protein designed for studying the Olfactomedin-like domain's role in developmental patterning and matrix-related functions. This 385-amino acid fragment is ideal for functional assays, structural studies, and exploring its scaffold activity in embryonic and placental development. Olfactomedin-like protein 3 (OLFML3) is a secreted scaffold protein essential for dorsoventral patterning during early development. It stabilizes axial formation by restricting chordin (CHRD) activity on the dorsal side, facilitating tolloid protease association with CHRD to enhance its degradation. This protein may also have matrix-related functions involved in placental and embryonic development and other physiological processes. As a secreted protein, it operates extracellularly, influencing key developmental pathways and cellular organization.