Recombinant FSHR protein (His tag)

Catalog Number	546862
Synonyms	FSH-R; Follitropin receptor
Species	Human
Expression System	E. coli
Accession	P23945
Molecular Weight	Predictes a molecular mass of 31.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	18-280
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 18-280 aa (P23945) 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 Follicle-Stimulating Hormone Receptor (FSH-R) Fragment (18-280) is a high-purity protein designed for studying the LRRNT domain. This fragment provides a valuable tool for investigating domain-specific functions of the FSH receptor in reproductive biology and signal transduction research. The full-length Follicle-Stimulating Hormone Receptor is a G protein-coupled receptor that binds follicle-stimulating hormone (follitropin) and activates downstream signaling pathways including cAMP production, PI3K-AKT, and ERK1/ERK2 cascades. Located in the cell membrane as a multi-pass membrane protein, FSH-R plays crucial roles in reproductive system regulation and cellular signaling processes. The receptor's activation through these pathways makes it significant for understanding reproductive physiology and developing therapeutic interventions.