

Recombinant Human FSHB Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50342

Size: 10ug, 100ug

Protein Name: Follicle-stimulating hormone beta subunit (FSH-B)
(FSH-beta) (Follicle-stimulating hormone beta chain)

Synonym: FSHB

UniProt ID: P01225

UniProt Link: www.uniprot.org/uniprotkb/P01225/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 129 AA

Molecular Weight: 15 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKTLQFFFLFCCWKAICCNSELNITIAIEKEECRFCISINTTWCAGYCYTRDLVYKDPARPKIQKTCT
FKELVYETVRVPGCAHHADSLYTPVATQCHCGKCDSSTDCTVRGLGPSYCSFGEMKE

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Follitropin subunit beta (Follicle-stimulating hormone beta subunit) (FSH-B) (FSH-beta) (Follitropin beta chain) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Together with the alpha chain CGA constitutes follitropin, the follicle-stimulating hormone, and provides its biological specificity to the hormone heterodimer. Binds FSHR, a G protein-coupled receptor, on target cells to activate downstream signaling pathways (PubMed:24692546, PubMed:2494176). Follitropin is involved in follicle development and spermatogenesis in reproductive organs (PubMed:407105, PubMed:8220432).

Subcellular Localization: Secreted . Note=Efficient secretion requires dimerization with CGA.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.