Recombinant EIF3F protein (His tag)

Catalog Number	544029
Synonyms	eIF3f; Deubiquitinating enzyme eIF3f; Eukaryotic translation initiation factor 3 subunit 5; eIF-3-epsilon; eIF3 p47
Species	Human
Expression System	E. coli
Accession	O00303
Molecular Weight	Predictes a molecular mass of 31.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	90-357
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 90-357 aa (O00303) 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 eIF3f (90-357) is a high-purity protein fragment encompassing the MPN domain of Eukaryotic translation initiation factor 3 subunit F. This product is engineered for researchers studying translation initiation mechanisms and Notch signaling pathways, offering a targeted tool for domain-specific functional analysis. Eukaryotic translation initiation factor 3 subunit F (eIF3f) is a multifunctional protein component of the eIF-3 complex, essential for multiple stages of protein synthesis initiation. It facilitates ribosome assembly, mRNA recruitment, and scanning during translation initiation while also functioning as a deubiquitinating enzyme that positively regulates Notch signaling through NOTCH1 deubiquitination. Located in the cytoplasm, eIF3f plays critical roles in cell proliferation, differentiation, and apoptosis by selectively regulating translation of specific mRNAs. The provided fragment (residues 90-357) contains the complete MPN domain, enabling focused investigation of its contributions to both translational regulation and Notch pathway modulation.