Recombinant IF4E3 protein (His tag)

Catalog Number	550185
Synonyms	eIF-4E type 3; eIF-4E3; eIF4E type 3; eIF4E-3
Species	Human
Expression System	E. coli
Accession	Q8N5X7
Molecular Weight	Predictes a molecular mass of 21.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	46-224
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 46-224 aa (Q8N5X7) 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 eIF4E3 Fragment (46-224) is a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable and soluble unit of the Eukaryotic translation initiation factor 4E type 3 (eIF4E3), which plays a key role in mRNA cap recognition during protein synthesis initiation. The full-length Eukaryotic translation initiation factor 4E type 3 (eIF4E3) is encoded by the EIF4E3 gene in Homo sapiens. It functions by recognizing and binding the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis. According to similarity-based evidence, eIF4E3 may act as an inhibitor of EIF4E1 activity, suggesting a regulatory role in translation initiation processes. The provided fragment (residues 46-224) was computationally selected to ensure stability and solubility, making it ideal for research applications in understanding protein function and interactions.