Recombinant IMP3 protein (His tag)

Catalog Number	536116
Synonyms	U3 snoRNP protein imp3; 40S ribosomal protein S4-like
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	O01513
Gene ID	172420
Molecular Weight	Predictes a molecular mass of 22.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-183
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-183 aa (O01513) 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 U3 snoRNP protein imp3 fragment (residues 1-183) from Caenorhabditis elegans, encompassing the full S4 RNA-binding domain. This high-purity protein is ideal for investigating ribosomal RNA processing mechanisms and RNA-protein interactions in molecular biology research. The full-length U3 small nucleolar ribonucleoprotein protein imp3 is a critical component of the U3 snoRNP complex, primarily localized in the nucleolus. It plays an essential role in ribosome biogenesis by facilitating the early cleavage events at sites A0, A1, and A2 during 18S ribosomal pre-RNA processing, as characterized in homologous systems. This protein's function is vital for proper ribosomal assembly and maturation, making it a key subject in studies of RNA processing and nucleolar function.