Recombinant DUS4L protein (His tag)

Catalog Number	548661
Synonyms	20a/20b; P; pp35; tRNA-dihydrouridine synthase 4-like
Species	Human
Expression System	E. coli
Accession	O95620
Molecular Weight	Predictes a molecular mass of 37.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-317
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-317 aa (O95620) 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 tRNA-dihydrouridine(20a/20b) synthase [NAD(P)+]-like (DUS4L), encompassing amino acids 1-317, is a high-purity fragment designed for structural and biochemical studies. This stable, soluble unit retains functional relevance for investigating tRNA modification mechanisms. The full-length protein, encoded by the DUS4L gene, catalyzes the synthesis of dihydrouridine, a modified base predominantly located in the D-loop of most tRNAs. This enzymatic activity is critical for tRNA maturation and function, influencing translational fidelity and cellular protein synthesis, as supported by research (PubMed:34798057). The subcellular localization is not specified in available data.