Recombinant UPP2 protein (His tag)

Catalog Number	544221
Synonyms	UPase 2; UrdPase 2
Species	Human
Expression System	E. coli
Accession	O95045
Molecular Weight	Predictes a molecular mass of 37.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-317
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 (O95045) 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 Uridine phosphorylase 2 (UPase 2) fragment (amino acids 1-317) from Homo sapiens, designed for structural and biochemical studies. This soluble and stable protein unit retains catalytic activity, enabling research into pyrimidine salvage pathways and nucleotide metabolism. Uridine phosphorylase 2 (UPase 2), encoded by the UPP2 gene, catalyzes the reversible phosphorylytic cleavage of uridine into uracil and ribose-1-phosphate. This reaction supports carbon and energy utilization and facilitates the salvage of pyrimidine bases for nucleotide synthesis. The enzyme exhibits broad substrate specificity, also accepting deoxyuridine and analogous compounds, underscoring its versatility in nucleotide metabolism. The provided recombinant fragment (1-317) encompasses the functional domain, making it ideal for investigating enzymatic mechanisms and substrate interactions.