Recombinant NT5D1 protein (His tag)

Catalog Number	550378
Species	Human
Expression System	E. coli
Accession	Q5TFE4
Molecular Weight	Predictes a molecular mass of 53.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	1-455
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 1-455 aa (Q5TFE4) 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	This recombinant protein product features a stable and soluble fragment (residues 1-455) of human 5'-nucleotidase domain-containing protein 1 (NT5DC1), designed for structural and biochemical studies. The fragment encompasses the full-length domain and is optimized for experimental applications where stability and solubility are critical. The full-length 5'-nucleotidase domain-containing protein 1, encoded by the NT5DC1 gene in Homo sapiens, is annotated with putative 5'-nucleotidase activity (EC 3.1.3.-), suggesting a potential role in nucleotide metabolism. However, specific functional details and subcellular localization are not fully characterized, highlighting the importance of this recombinant fragment for elucidating the protein's biological significance in cellular processes.