Recombinant NT5D3 protein (His tag)

Catalog Number	549559
Synonyms	GRP94-neighboring nucleotidase
Species	Human
Expression System	E. coli
Accession	Q86UY8
Molecular Weight	Predictes a molecular mass of 60.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 63 kDa band.

Product Information

Sequence Region	52-548
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 52-548 aa (Q86UY8) 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 497-amino acid fragment (residues 52-548) of human 5'-nucleotidase domain-containing protein 3 (NT5DC3), also known as GRP94-neighboring nucleotidase. The fragment was computationally selected to provide a stable and soluble protein unit ideal for structural biology studies and enzymatic characterization. The full-length 5'-nucleotidase domain-containing protein 3 (NT5DC3) is a human protein classified under the EC 3.1.3.- enzyme category, indicating its potential role in phosphatase/nucleotidase activity. While specific functional details and subcellular localization information are not fully characterized, the protein's nomenclature suggests involvement in nucleotide metabolism and potential association with GRP94, a key endoplasmic reticulum chaperone protein. Further research using this recombinant fragment may help elucidate the protein's precise biological functions and mechanisms.