Recombinant MPPD2 protein (His tag)

Catalog Number	547360
Synonyms	Fetal brain protein 239; 239FB; Metallophosphoesterase domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q15777
Molecular Weight	Predictes a molecular mass of 35.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-294
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 1-294 aa (Q15777) 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 Metallophosphoesterase MPPED2 (EC 3.1.-.-), also known as Fetal brain protein 239, is a high-purity fragment (residues 1-294) designed for structural and biochemical studies. This stable, soluble construct retains key functional regions, enabling research into its metallophosphoesterase activity and neurodevelopmental roles. Metallophosphoesterase MPPED2 is a human enzyme with demonstrated low metallophosphoesterase activity in vitro. It is implicated in nervous system development, as supported by conserved functional evidence across species. The protein, encoded by the MPPED2 gene, is also referred to as Fetal brain protein 239, highlighting its potential significance in early neural processes. The recombinant fragment (1-294) encompasses the full metallophosphoesterase domain, providing a reliable tool for investigating its catalytic mechanisms and biological functions.