Recombinant ELMD2 protein (His tag)

Catalog Number	550692
Species	Human
Expression System	E. coli
Accession	Q8IZ81
Molecular Weight	Predictes a molecular mass of 36.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-293
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-293 aa (Q8IZ81) 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 ELMO domain-containing protein 2 (ELMOD2) fragment (residues 1-293) from Homo sapiens, encompassing the complete ELMO functional domain. This high-purity protein serves as an essential tool for investigating GTPase-activating protein (GAP) activity and its role in regulating antiviral responses. The full-length ELMO domain-containing protein 2 (ELMOD2) functions as a GTPase-activating protein (GAP) that specifically targets guanine nucleotide exchange factors such as ARL2, ARL3, ARF1, and ARF6, while showing no activity toward GTPases outside the Arf family. It plays a critical role in modulating interferon (IFN)-related antiviral immune responses, as supported by experimental evidence (PubMed:17452337, PubMed:19966137). The subcellular localization of ELMOD2 is not specified in the provided data.