Recombinant OGFD3 protein (His tag)

Catalog Number	549246
Species	Human
Expression System	E. coli
Accession	Q6PK18
Molecular Weight	Predictes a molecular mass of 30.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	66-319
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 66-319 aa (Q6PK18) 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 OGFOD3 (2-oxoglutarate and iron-dependent oxygenase domain-containing protein 3) Fragment (aa 66-319) is a high-purity protein designed for functional studies. This fragment fully encompasses the Fe2OG dioxygenase domain (aa 207-309), offering a targeted tool to investigate domain-specific catalytic activity and regulatory mechanisms in biochemical and cellular assays. The full-length OGFOD3 protein (UniProt ID: Q6PK18) is a human 2-oxoglutarate and iron-dependent oxygenase, belonging to the EC 1.14.11.- enzyme class, which typically catalyzes hydroxylation reactions using 2-oxoglutarate and iron as cofactors. It is localized to the membrane as a single-pass type II membrane protein, suggesting potential roles in membrane-associated signaling, modification, or metabolic processes. This recombinant fragment enables focused research on the structural and functional properties of the conserved Fe2OG dioxygenase domain, advancing understanding of its contributions to cellular pathways.