Recombinant DOXA2 protein (His tag)

Catalog Number	540392
Synonyms	Dual oxidase activator 2
Species	Human
Expression System	E. coli
Accession	Q1HG44
Molecular Weight	Predictes a molecular mass of 13.39 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	78-183
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 78-183 aa (Q1HG44) 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 Dual oxidase maturation factor 2 (DUOXA2) fragment (residues 78-183) from Homo sapiens, designed for structural and biochemical studies. This stable, soluble fragment supports research on DUOX2 maturation and thyroid hormone synthesis pathways. Dual oxidase maturation factor 2 (DUOXA2) is essential for the maturation and transport of functional DUOX2 from the endoplasmic reticulum to the plasma membrane, playing a critical role in thyroid hormone synthesis. As a multi-pass membrane protein localized to the endoplasmic reticulum membrane, it ensures proper DUOX2 functionality, with implications for understanding thyroid-related physiological processes.