Recombinant FXDC2 protein (His tag)

Catalog Number	547979
Species	Human
Expression System	E. coli
Accession	Q96IV6
Molecular Weight	Predictes a molecular mass of 10.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	258-333
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 258-333 aa (Q96IV6) 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 FAXDC2 (258-333) Fragment is a 76-amino acid protein fragment derived from the Fatty acid hydroxylase domain-containing protein 2. This soluble fragment has been specifically engineered for structural and biochemical studies, offering researchers a stable tool to investigate the molecular mechanisms of megakaryocyte differentiation. The full-length Fatty acid hydroxylase domain-containing protein 2 (FAXDC2) plays a crucial role in promoting megakaryocyte differentiation by enhancing ERK phosphorylation and up-regulating RUNX1 expression. This protein is localized to both the cytoplasm and cellular membranes, functioning as a multi-pass membrane protein. The selected fragment (residues 258-333) represents a computationally optimized soluble region that maintains structural integrity while eliminating membrane-associated complexities, making it ideal for in vitro studies of FAXDC2 function in hematopoietic differentiation pathways.