Recombinant FOG2 protein (His tag)

Catalog Number	538610
Synonyms	Friend of GATA protein 2; FOG-2; Friend of GATA 2; hFOG-2; Zinc finger protein 89B; Zinc finger protein multitype 2
Species	Human
Expression System	E. coli
Accession	Q8WW38
Molecular Weight	Predictes a molecular mass of 34.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	97-385
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 97-385 aa (Q8WW38) 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	This recombinant protein represents a stable and soluble fragment (residues 97-385) of the human Zinc finger protein ZFPM2 (also known as FOG-2), a key transcriptional regulator essential for heart morphogenesis and coronary vessel development. This fragment is ideal for structural studies and biochemical assays. Zinc finger protein ZFPM2 (FOG-2) is a transcription regulator critical for heart development and gonadal differentiation. It functions as a cofactor by forming heterodimers with GATA family transcription factors (GATA4, GATA5, GATA6), modulating gene expression during cardiogenesis. Depending on cellular and promoter contexts, these heterodimers can either activate or repress transcription. ZFPM2 is also implicated in regulating SRY expression for gonadal development and may act as a corepressor for NR2F2. The protein localizes to the nucleus, consistent with its role in transcriptional regulation.