Recombinant CFC1 protein (His tag)

Catalog Number	544358
Synonyms	Cryptic family protein 1
Species	Human
Expression System	E. coli
Accession	P0CG37
Molecular Weight	Predictes a molecular mass of 9.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	88-158
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 88-158 aa (P0CG37) 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 Cryptic protein (Cryptic family protein 1) fragment (residues 88-158) from Homo sapiens, designed for structural and biochemical studies. This 71-amino acid fragment represents a stable, soluble unit of the protein, ideal for investigating its role as a NODAL coreceptor in left-right axis establishment. The full-length Cryptic protein (CFC1) functions as a NODAL coreceptor essential for the correct establishment of the left-right axis during development and may contribute to mesoderm and/or neural patterning in gastrulation. It is localized to the cell membrane via a GPI-anchor, though a secreted form can also be produced due to reduced processing efficiency of its unique C-terminal hydrophilic extension found in primates. This protein's involvement in key developmental pathways underscores its relevance in developmental biology and disease research.