Recombinant CIROZ protein (His tag)

Catalog Number	547758
Synonyms	Ciliated left-right organizer protein containing ZP-N domains
Species	Human
Expression System	E. coli
Accession	Q8N9H9
Molecular Weight	Predictes a molecular mass of 37.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	51-367
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 51-367 aa (Q8N9H9) 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 Ciliated left-right organizer ZP-N domains-containing protein (CIROZ), fragment 51-367, is a highly stable and soluble protein unit designed for structural and biochemical studies. This fragment supports research into left-right patterning processes, offering a reliable tool for investigating developmental biology mechanisms. The full-length Ciliated left-right organizer ZP-N domains-containing protein (CIROZ) plays a critical role in the left-right patterning process during development, as evidenced by scientific research (PubMed:39753129). This protein is secreted, indicating its function in extracellular signaling or organization, which is essential for establishing asymmetric body plans. The provided fragment (residues 51-367) represents a computationally optimized region that maintains stability and solubility, facilitating experimental applications without the complexities of the full-length protein.