Recombinant ITPI2 protein (His tag)

Catalog Number	546887
Synonyms	Cleavage signal-1 protein; CS-1; ITPR-interacting domain-containing protein 2; Ki-ras-induced actin-interacting protein; Sperm-specific antigen 2
Species	Human
Expression System	E. coli
Accession	P28290
Molecular Weight	Predictes a molecular mass of 16.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	168-300
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 168-300 aa (P28290) 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 ITPRID2 Fragment (aa 168-300) is a high-purity protein designed for structural and biochemical studies. This 133-amino acid fragment of Protein ITPRID2 (also known as Cleavage signal-1 protein or Ki-ras-induced actin-interacting protein) has been computationally optimized for stability and solubility, making it an ideal tool for investigating protein interactions and functional mechanisms. Protein ITPRID2 is a multifunctional protein involved in cellular signaling and structural organization. It is primarily localized in the cytoplasm, particularly near the plasma membrane, where it associates with actin filaments. The protein may also exist in a membrane-bound form with extracellular regions, suggesting roles in cell adhesion or communication. While specific functional details are not fully characterized, its interaction with actin and potential membrane association indicate involvement in cytoskeletal dynamics and cellular architecture, which are critical in processes such as cell motility and Ras-mediated signaling pathways.