Recombinant GUC2B protein (His tag)

Catalog Number	547374
Synonyms	Guanylate cyclase C-activating peptide II; GCAP-II; UGN
Species	Human
Expression System	E. coli
Accession	Q16661
Molecular Weight	Predictes a molecular mass of 13.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-112
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-112 aa (Q16661) 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 Guanylate cyclase activator 2B fragment (amino acids 1-112) is a high-purity protein designed for structural and biochemical studies. This stable, soluble fragment retains key functional characteristics, making it ideal for investigating intestinal fluid and electrolyte transport regulation. Guanylate cyclase activator 2B is an endogenous activator of intestinal guanylate cyclase, functioning through the same receptor binding region as heat-stable enterotoxins. As a secreted protein, it serves as a potent physiological regulator of intestinal fluid and electrolyte transport, potentially acting as an autocrine/paracrine regulator of intestinal salt and water homeostasis.