Recombinant RET5 protein (His tag)

Catalog Number	549472
Synonyms	Cellular retinol-binding protein III; CRBP-III; HRBPiso
Species	Human
Expression System	E. coli
Accession	P82980
Molecular Weight	Predictes a molecular mass of 17.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	1-135
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 1-135 aa (P82980) 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 Retinol-binding protein 5 (RBP5) fragment (amino acids 1-135) is a high-purity protein designed for intracellular retinol transport studies. This stable, soluble fragment is ideal for structural and biochemical analyses, enabling researchers to explore retinol-binding mechanisms with precision. Retinol-binding protein 5 (also known as Cellular retinol-binding protein III or CRBP-III) facilitates intracellular retinol transport, as supported by experimental evidence (ECO:0000269|PubMed:11274389). It localizes to the cytoplasm, where it plays a critical role in managing retinol distribution within cells. This protein is significant for understanding retinol metabolism and its cellular regulatory pathways.