Recombinant RET7 protein (His tag)

Catalog Number	550218
Synonyms	Cellular retinoic acid-binding protein 4; CRABP4; CRBP4; Cellular retinoic acid-binding protein IV; CRABP-IV
Species	Human
Expression System	E. coli
Accession	Q96R05
Molecular Weight	Predictes a molecular mass of 17.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	1-134
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 1-134 aa (Q96R05) 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 Retinoid-binding protein 7 (CRABP4/CRBP4) Fragment (1-134): A high-quality, stable, and soluble protein fragment designed for structural and biochemical studies, supporting research into intracellular retinol transport mechanisms. Retinoid-binding protein 7, also known as Cellular retinoic acid-binding protein 4 (CRABP4), functions in the intracellular transport of retinol, playing a critical role in retinoid signaling pathways essential for cellular differentiation and development. This protein is localized in the cytoplasm, where it facilitates the mobilization and distribution of retinol derivatives. The provided fragment (residues 1-134) encompasses the complete functional domain, enabling focused investigations into its binding properties and structural characteristics without interference from less stable regions.