Recombinant RABP2 protein (His tag)

Catalog Number	539887
Synonyms	Cellular retinoic acid-binding protein II; CRABP-II
Species	Human
Expression System	E. coli
Accession	P29373
Molecular Weight	Predictes a molecular mass of 17.35 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1-138
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 1-138 aa (P29373) 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	Introducing the recombinant CRABP-II (1-138) fragment, a highly stable and soluble protein unit derived from human Cellular Retinoic Acid-Binding Protein 2. This product is expertly engineered for structural and biochemical studies, offering researchers a reliable tool to investigate retinoic acid transport and nuclear receptor regulation mechanisms. Cellular Retinoic Acid-Binding Protein 2 (CRABP-II) is a crucial intracellular transporter that delivers retinoic acid to the nucleus, where it regulates nuclear retinoic acid receptors. The protein localizes primarily to the cytoplasm and endoplasmic reticulum but undergoes a conformational change upon ligand binding that exposes a nuclear localization signal, facilitating its transport into the nucleus. This dynamic subcellular shuttling enables CRABP-II to precisely control retinoic acid availability for receptor-mediated signaling pathways, playing a fundamental role in cellular differentiation and development processes.