Recombinant COL10 protein (His tag)

Catalog Number	548629
Synonyms	Collectin liver protein 1; CL-L1; Collectin-34; CL-34
Species	Human
Expression System	E. coli
Accession	Q9Y6Z7
Molecular Weight	Predictes a molecular mass of 22.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	100-277
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 100-277 aa (Q9Y6Z7) 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 Collectin-10 (COLEC10) Fragment (aa 100-277) is a high-purity protein fragment encompassing the C-type lectin domain, designed for studying carbohydrate binding and cell migration regulation in research applications. Collectin-10, also known as Collectin liver protein 1 or Collectin-34, is a lectin that exhibits binding specificity for various sugars, with highest affinity for galactose, followed by mannose, fucose, N-acetylglucosamine, and N-acetylgalactosamine. This protein functions as a chemoattractant and is involved in regulating cell migration processes. The full-length protein demonstrates complex subcellular localization, being found in secreted form, the Golgi apparatus, and the cytoplasm, indicating its diverse roles in cellular function and intercellular signaling pathways.