Recombinant CLM7 protein (His tag)

Catalog Number	541680
Synonyms	CLM-7; CD300 antigen-like family member B; CMRF35-A2; Immune receptor expressed on myeloid cells 3; IREM-3; Leukocyte mono-Ig-like receptor 5; Triggering receptor expressed on myeloid cells 5; TREM-5; CD antigen CD300b
Species	Human
Expression System	E. coli
Accession	A8K4G0
Molecular Weight	Predictes a molecular mass of 16.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	18-151
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 18-151 aa (A8K4G0) 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 CD300b (CLM-7/IREM-3/TREM-5) Fragment (aa 18-151) is a high-purity protein designed for immunological research. This 134-amino acid fragment fully encompasses the Ig-like V-type domain, making it an ideal tool for studying the specific activating functions and ligand interactions of this immune receptor in myeloid cells. The full-length CD300b protein, also known as CLM-7, IREM-3, or TREM-5, functions as an activating immune receptor expressed on myeloid cells. It signals through two distinct pathways: by interacting with the ITAM-bearing adapter TYROBP and independently through recruitment of GRB2. This receptor is localized to the cell membrane as a single-pass type I membrane protein, where it plays a crucial role in immune cell activation and signaling processes. The protein's dual signaling capability makes it an important target for understanding immune regulation and myeloid cell function.