Recombinant CD302 protein (His tag)

Catalog Number	547693
Synonyms	C-type lectin BIMLEC; C-type lectin domain family 13 member A; DEC205-associated C-type lectin 1; Type I transmembrane C-type lectin receptor DCL-1; CD antigen CD302
Species	Human
Expression System	E. coli
Accession	Q8IX05
Molecular Weight	Predictes a molecular mass of 18.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	23-168
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 23-168 aa (Q8IX05) 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 CD302 (C-type lectin domain fragment) is a high-purity protein fragment encompassing amino acids 23-168, which includes the complete C-type lectin domain (32-152). This product is designed for researchers studying the roles of CD302 in endocytosis, phagocytosis, cell adhesion, and migration, providing a focused tool for domain-specific functional investigations. CD302, also known as BIMLEC or DCL-1, is a multifunctional C-type lectin receptor implicated in endocytosis, phagocytosis, cell adhesion, and migration. As a single-pass type I membrane protein, it localizes to the membrane and dynamically associates with actin-rich structures such as filopodia, the cell cortex, and microvilli, suggesting its involvement in cellular protrusions and surface interactions. The full-length protein's ability to colocalize with F-actin highlights its potential role in cytoskeletal organization and membrane dynamics, making it a protein of interest in immune cell function and cellular trafficking studies.