Recombinant CLC5A protein (His tag)

Catalog Number	543760
Synonyms	C-type lectin superfamily member 5; Myeloid DAP12-associating lectin 1; MDL-1
Species	Human
Expression System	E. coli
Accession	Q9NY25
Molecular Weight	Predictes a molecular mass of 15.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	69-188
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 69-188 aa (Q9NY25) 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 CLEC5A C-type Lectin Domain Fragment (aa 69-188) - A high-purity protein fragment encompassing the complete C-type lectin functional domain, ideal for studying osteoclastogenesis regulation, inflammatory responses, and viral recognition mechanisms. C-type lectin domain family 5 member A (CLEC5A), also known as MDL-1, is a cell surface receptor that functions as a positive regulator of osteoclastogenesis and inflammatory responses. This single-pass type II membrane protein signals through TYROBP and plays a critical role in immune recognition. Notably, CLEC5A serves as a crucial macrophage receptor for dengue virus serotypes 1-4, where viral binding triggers TYROBP phosphorylation and stimulates pro-inflammatory cytokine release without facilitating viral entry. The protein's strategic position on the cell membrane and its signaling capabilities make it an important target for immunological and virological research.