Recombinant CLC2B protein (His tag)

Catalog Number	540895
Synonyms	Activation-induced C-type lectin; C-type lectin superfamily member 2; IFN-alpha-2b-inducing-related protein 1
Species	Human
Expression System	E. coli
Accession	Q92478
Molecular Weight	Predictes a molecular mass of 16.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	26-149
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 26-149 aa (Q92478) 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 CLEC2B (C-type lectin domain family 2 member B) Fragment (aa 26-149) is a high-purity protein designed for studying the C-type lectin domain. This fragment plays a key role in immune regulation by serving as a ligand for NKp80/KLRF1, enabling research into NK-cell-mediated cytotoxicity and cytokine production. CLEC2B is a membrane-bound protein expressed on myeloid cells, where it functions as a ligand for the activating receptor NKp80/KLRF1 on natural killer (NK) cells. This interaction stimulates NK-cell cytotoxicity and cytokine production, contributing to the targeted cytolysis of malignant CLEC2B-expressing myeloid cells. The protein is localized to the cell membrane as a single-pass type II membrane protein and is also found in the Golgi apparatus membrane, with resting NK cells maintaining intracellular stores associated with the Golgi complex. The recombinant fragment (aa 26-149) encompasses the functional C-type lectin domain (aa 42-145), making it an ideal tool for investigating domain-specific immune functions in research settings.