

Recombinant human MDL-1/CLEC5A protein

Catalog Number: ATGP3820

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

28-188aa

UniProt No.

Q9NY25

NCBI Accession No.

NP_037384

Alternative Names

C-type lectin domain family 5 member A, C-type lectin domain family 5 member A isoform 1, CLEC5A, CLECSF5, MDL-1, MDL1, Macrophage lectin 2

PRODUCT SPECIFICATION

Molecular Weight

19.5 kDa (170aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CLEC5A, also known as C-type lectin domain family 5 member A isoform 1, is a member of the CTL/CTLD superfamily that have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. It functions as a cell attachment receptor for all four serotypes of

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Dengue virus as well as Japanese encephalitis virus. The binding of dengue virus to CLEC5A triggers signaling through the phosphorylation of TYROBP, this interaction does not result in viral entry, but stimulates proinflammatory cytokine release. This protein acts as a positive regulator of osteoclastogenesis and a key regulator of synovial injury and bone erosion during autoimmune joint inflammation. Recombinant human CLEC5A protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADLPQIFNKS NDGFTTTRSY GTVSQIFGSS SPSPNGFITT RSYGTVCPKD WEFYQARCFE LSTSESSWNE SRDFCKGKGS
TLAIVNTPEK LKFLQDITDA EKYFIGLIYH REEKRWRRWIN NSVFNGNVTN QNQNFNCATI GLTKTFDAAS CDISYRRICE
KNAKHHHHHH

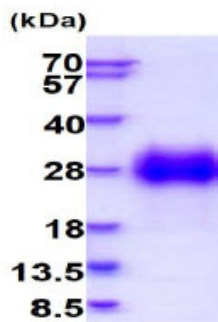
General References

Gonzalez-Dominguez E., et al, (2015) J Leukoc Biol. 98:453-466.

Chen ST., et al, (2017) Nat Commun. 8:299

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.