Data Sheet (Cat.No.TMPJ-01252)

TargetMol

CLEC2D Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Clec2d;Clr-b;Clrb;Ocil;Osteoclast inhibitory lectin;C-type lectin domain family 2 member D; Lectin-like transmembrane protein;C-type lectin-related protein B
Protein Construction:	Leu63-Ser207
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q91V08
Molecular Weight:	24-32 KDa (reducing condition)
AA Sequence:	Leu63-Ser207

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

C-type lectin domain family 2, member D (CLEC2D) is implicated in the immune response. Sensing tissue damage is an ancient function of immune cells that is central to the regulation of inflammation, tissue repair, and immunity. The C-type lectin receptor Clec2d as a sensor of cell death, which directly detects histones released during necrosis and thus contributes to inflammation and immunopathology. The Clec2d pathway may also be exploited to favor a pro-inflammatory anti-tumor response. And tumor cells can show reduced global levels of

histone modification, which may favor Clec2d sensing. The contrasting expression of CLEC2D in HIV infection and pre-eclampsia is demonstrative of the immunosuppressive and pro-inflammatory roles of the respective pathologies.

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