

## CLEC-1 Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	CLEC1;C-type lectin domain family 1, member A;CLEC-1
Protein Construction:	A DNA sequence encoding the human CLEC1A (NP_057595.2) (Gln77-Asp280) was expressed with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Gln 77
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NC01
Molecular Weight:	51.89 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

CLEC1A, also known as CLEC-1, is a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. CLEC1A contains 1 C-type lectin domain and is expressed preferentially in dendritic cells. It may play a role in regulating dendritic cell function. CLEC1A gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the

natural killer gene complex region. Alternative splice variants have been described but their biological nature has not been determined. CLEC1A is found to be not only expressed in dendritic cells, but also in endothelial cells and in the latter aspect resembles the LOX-1 gene.

### Reference

Ebner S, et al. (2003) Evolutionary analysis reveals collective properties and specificity in the C-type lectin and lectin-like domain superfamily. *Proteins*. 53(1): 44-55.

Zelensky AN, et al. (2005) The C-type lectin-like domain superfamily. *Gready JE. FEBS J*. 272(24): 6179-217.

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