

COLEC10 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	collectin sub-family member 10 (C-type lectin);CL-L1
Protein Construction:	A DNA sequence encoding the mouse COLEC10 (Q8CF98) (Cys119-Lys277) was expressed with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Glu
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q8CF98
Molecular Weight:	47 kDa (predicted); 53 kDa (reducing condition, due to glycosylation)

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:	> 85 % as determined by SDS-PAGE
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

COLEC1 is a member of the C-lectin family. Members of this family possess collagen-like sequences and carbohydrate recognition domains. The other members of this family are secreted proteins and bind to carbohydrate antigens on microorganisms facilitating their recognition and removal. This gene product is a cytosolic protein, a characteristic that suggests that it may have different biological functions than other C-lectins.

Reference

Ohtani K.,et al.,(1999), Molecular cloning of a novel human collectin from liver (CL-L1). J. Biol. Chem. 274:13681-13689.

Clark H.F.,et al., (2003), The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment.Genome Res. 13:2265-2270.

Ota T.,et al.,(2004), Complete sequencing and characterization of 21,243 full-length human cDNAs.Nat. Genet. 36:40-45.

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