

Dectin-1 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	CANDF4;BGR;DECTIN1;CLECSF12;C-type lectin domain family 7, member A
Protein Construction:	Thr66-Met201
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BXN2-2
Molecular Weight:	41.79 kDa (Predicted); 45-50 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/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:

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

Dendritic cell-associated C-type lectin-1 (Dectin-1), also known as β -glucan receptor is an emerging pattern recognition receptor (PRR) which belongs to the family of C-type lectin receptor (CLR). Dectin-1 signaling axis has been suggested to be targeted as an effective therapeutic strategy for cancers. Dectin-1 has also been elucidated ascetically in the heart, respiratory, intestinal, neurological and developmental disorders.

Reference

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- Sun L, et al. (2007) The biological role of dectin-1 in immune response. *Int Rev Immunol.* 26(5-6): 349-64.
- Schorey JS, et al. (2008) The pattern recognition receptor Dectin-1: from fungi to mycobacteria. *Curr Drug Targets.* 9(2): 123-9.
- Reid DM, et al. (2009) Pattern recognition: recent insights from Dectin-1. *Curr Opin Immunol.* 21(1): 30-7.

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