

CD157 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	Cyclic ADP-ribose hydrolase 2;cADPr hydrolase 2;ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2;BST-1;Bone marrow stromal antigen 1;CD157;ADP-ribosyl cyclase 2
Protein Construction:	Gly29-Lys292
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q10588
Molecular Weight:	75 KDa (reducing condition)
AA Sequence:	Gly29-Lys292

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 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

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

The cluster of differentiation (CD) system is a glycosyl phosphatidylinositol anchored membrane protein that belongs to the CD38 family. It is generally used in immunophenotyping. CD157 was discovered in a bone marrow stromal cell line where it facilitates pre-B-cell growth. CD157 is a bifunctional ectoenzyme that exhibits both ADP-ribosyl cyclase and cyclic ADP ribose hydrolase activities followed with CD38. It plays a role in rheumatoid arthritis

(RA) due to its enhanced expression in RA-derived bone marrow stromal cell lines. Studies have shown that this protein have a role in predicted to function as a cell surface receptor and an immunoregulatory molecule.

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