

CD73/5'-Nucleotidase Protein, Human, Recombinant (hFc)

General Information

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| Synonyms: | NT;CALJA;5'-nucleotidase, ecto (CD73);eN;eNT;E5NT;NT5;NTE;CD73 |
| Protein Construction: | Trp27-Lys547 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P21589-1 |
| Molecular Weight: | 84.5 kDa (Predicted); 85-100 kDa (Due to glycosylation) |

QC Testing

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| Biological Activity: | Immobilized Human CD73, hFc Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Anti-CD73 Antibody, hFc Tag with the EC50 of 22.6 ng/ml determined by ELISA (QC Test). |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22µm filtered solution in 20mM Tris, 120mM NaCl (pH 7.5). 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 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:

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

CD73, also known as ecto-5'-nucleotidase, is an enzyme that in humans is encoded by the NT5E gene. CD73 commonly serves to convert AMP to adenosine. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. A deficiency of CD73 occurs in a variety of immunodeficiency diseases.

Reference

- Resta R. et al., 1997, Cell Signal. 9 (2): 131-9.
Yamashita Y. et al., 1998, Eur J Immunol. 28 (10): 2981-90.
Louis NA. et al., 2008, J Immunol. 180 (6): 4246-55.
Grünewald JK. et al., 2010, J Inflamm. 7 (1): 10.

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