

CD69 Protein, Cynomolgus, Recombinant (His)

General Information

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| Synonyms: | CLEC2C;AIM;EA1;MLR-3;GP32;BL-AC;BL-AC/P26;P26;28;CD69;Leu 23 |
| Protein Construction: | Ser62-Lys199 |
| Species: | Cynomolgus |
| Expression Host: | HEK293 Cells |
| Accession: | A0A2K5TSM3 |
| Molecular Weight: | 16.91 kDa (predicted). Due to glycosylation, the protein migrates to 23-28 kDa based on Tris-Bis PAGE result. |

QC Testing

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| 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: | > 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 a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent 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

CLEC2C (CD69) is a membrane-bound, type II C-lectin receptor and acts as a costimulatory molecule for T cell activation and proliferation. It is involved in lymphocyte proliferation and functions as a signal transmitting receptor in lymphocytes, natural killer (NK) cells, and platelets. CLEC2C is a disulfide-linked homodimer protein with two differentially glycosylated subunits.

Reference

Ziegler SF, et al. The activation antigen CD69. Stem Cells. 1994 Sep;12(5):456-65. doi: 10.1002/stem.5530120502. PMID: 7804122.

Cibrián D, Sánchez-Madrid F. CD69: from activation marker to metabolic gatekeeper. Eur J Immunol. 2017 Jun;47(6):946-953. doi: 10.1002/eji.201646837. PMID: 28475283; PMCID: PMC6485631.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481