

B7-H3 (4Ig)/B7-H3b Protein, Human, Recombinant (His)

General Information

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| Synonyms: | B7-H3;B7RP-2;4Ig-B7-H3;CD276 molecule;B7H3 |
| Protein Construction: | Gly27-Thr461 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q5ZPR3-1 |
| Molecular Weight: | 48.25 kDa (Predicted); 68-78 kDa (Due to glycosylation) |

QC Testing

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| Biological Activity: | Immobilized Human B7-H3 (4Ig), His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-B7-H3 Antibody, hFc Tag with the EC50 of 5.0 ng/ml determined by ELISA. (QC Test) Loaded Anti-B7-H3 Ab, hFc Tag on ProA-Biosensor can bind Human B7-H3 (4Ig), His Tag with an affinity constant of 4.59 nM as determined in BLI assay . |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 0.1 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22 µm 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 sterile deionized 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

B7-H3, a member of the B7 family of immunomodulatory molecules, is overexpressed in a wide range of solid cancers. B7-H3 binds to activated T cells via an as yet unidentified receptor. In assays using sub-optimal amount so anti-CD3 stimulation, 2Ig-B7-H3 enhances T cell proliferation, T cell interferon-gamma (IFN-gamma) production,

and cytotoxic T cells induction.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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