

B7-H6 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	NCR3LG1;B7H6;DKFZp686O24166;B7-H6;DKFZp686I21167;B7 Homolog 6
Protein Construction:	Asp25-Ser262
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q68D85
Molecular Weight:	29.6 kDa (predicted). Due to glycosylation, the protein migrates to 48-65 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human NKp30, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human B7-H6, His-Avi Tag with an affinity constant of 0.227 μ M as determined in SPR assay.
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 a solution filtered through a 0.22 μ m 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 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

B7-H6 is a glycosylated member of the B7 family of immune co-stimulatory proteins. which is a ligand for the NK cell activating receptor NKp30, was targeted to create a CAR that targets multiple tumor types. B7H6 is expressed on various primary human tumors, including leukemia, lymphoma and gastrointestinal stromal tumors, but it is not constitutively expressed on normal tissues.

Reference

Wu M R, et al. B7H6-Specific Bispecific T Cell Engagers Lead to Tumor Elimination and Host Antitumor Immunity[J]. The Journal of Immunology, 2015, 194(11):5305-531

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