Data Sheet (Cat.No.TMPK-01186)

TargetMol

VISTA Protein, Human, Recombinant (His)

General Information

Synonyms:	VSIR;B7H5;4632428N05Rik;SISP1;PP2135;Dies1;PD-1H;VISTA;C10orf54;Gi24;PD1H;B7-H5
Protein Construction:	Phe33-Ala194
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9H7M9
Molecular Weight:	19 kDa (predicted). Due to glycosylation, the protein migrates to 32-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human B7-H5, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-B7-H5 Antibody, hFc Tag with the EC50 of 3.6ng/ml determined by ELISA.
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

B7-H5, also known as VISTA , B7H5, Dies1, SISP1 and C10orf54, is a 55-65 kDa member of the Ig superfamily. It is a transmembrane molecule expressed in bone, on embryonic stem cells (ESCs), and on tumor cell surfaces.

Reference

Byers J T, et al. Expression of the Novel Costimulatory Molecule B7-H5 in Pancreatic Cancer[J]. Annals of Surgical Oncology, 2014.

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