

Human B7H7 / HHLA2 Protein (His Tag)

Catalog Number: 16139-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

B7-H7; B7H7; HHLA2

Protein Construction:

A DNA sequence encoding the human HHLA2 (NP_009003.1) (Met1-Asn344) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ile 23

Molecular Mass:

The recombinant human HHLA2 consists of 333 amino acids and predicts a molecular mass of 38.4 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

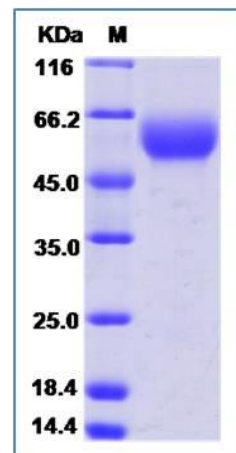
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

B7H7 gene encodes a protein ligand found on the surface of monocytes. The encoded protein is thought to regulate cell-mediated immunity by binding to a receptor on T lymphocytes and inhibiting the proliferation of these cells. Alternate splicing results in multiple transcript variants. HERV-H LTR-associating 2 (HHLA2, also called B7H7/B7-H5/B7y) has been recently discovered as the newest member of the B7 family and has 23–33% similarity in amino acid sequence with the other B7 molecules. This ligand is the only B7 family member that is found in humans but not in mice. It is constitutively expressed on the surface of human monocytes and is induced on B cells. HHLA2 binds to its putative receptor(s) on a variety of immune cells including CD4 and CD8 T cells and antigen-presenting cells. Similarly to B7-H3, both a T cell coinhibitory role as well as a costimulatory role has been reported for this ligand.

References

3.Janakiram M, Chinai JM, Fineberg S, *et al.* Expression, clinical significance, and receptor identification of the newest B7 family member HHLA2 protein. Clinical cancer research?: an official journal of the American Association for Cancer Research. 2015;21(10):2359-2366.

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