

Recombinant human B7H7

Catalog No: #AG0067

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Description

Product Name	Recombinant human B7H7
Host Species	HEK293
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC
Immunogen Description	Ile23-Asn344
Target Name	B7H7
Other Names	B7H7; B7-H7; HERV-H LTR-associating 2; HERV-H LTR-associating protein 2; HHLA2; Human endogenous retrovirus-H long terminal repeat-associating protein 2
Accession No.	Uniprot:Q9UM44Gene ID:11148
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GeneID	11148
Target Species	human
Calculated MW	37 KDa
Tag Info	C-His-Tag
Formulation	0.22 µm filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Background

B7-H7, also known as HHLA2 (HERV-H LTR-associating 2), is a member of the B7 family of immune regulatory proteins (1, 2). Mature human B7-H7 consists of a 322 amino acid (aa) extracellular domain (ECD) with three immunoglobulin-like domains, a 21 aa transmembrane segment, and a 49 aa cytoplasmic domain (3-5). B7-H7 is constitutively expressed on monocytes and is up-regulated by LPS and IFN-gamma stimulation. It is expressed on LPS/IFN-gamma treated B cells but not on resting B cells (5). B7-H7 binds to cell surface determinants on resting and mature T cells, B cells, and monocytes as well as on immature and mature dendritic cells (5). Soluble B7-H7 inhibits the proliferation of activated CD4+ and CD8+ T cells and their production of IFN-gamma, TNF-alpha, IL-5, IL-10, IL-13, IL-17A, and IL-22 (5).

Note: This product is for in vitro research use only