

Synonym

ICOSLG,B7-H2,B7H2,B7RP-1,B7RP1,CD275,GL50,ICOS-L,ICOSL,LICOS,ICOS ligand

Source

Human B7-H2, His Tag(B72-H5221) is expressed from human 293 cells (HEK293). It contains AA Asp 19 - Ser 258 (Accession # [NP_056074](#)). Predicted N-terminus: Asp 19

Molecular Characterization

B7-H2(Asp 19 - Ser 258)
NP_056074 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 27.8 kDa. The protein migrates as 45-67 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

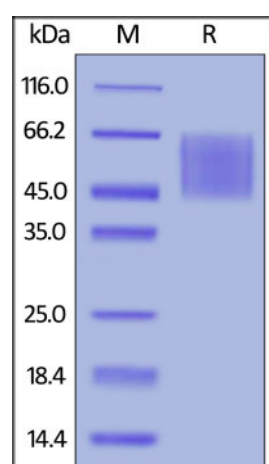
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

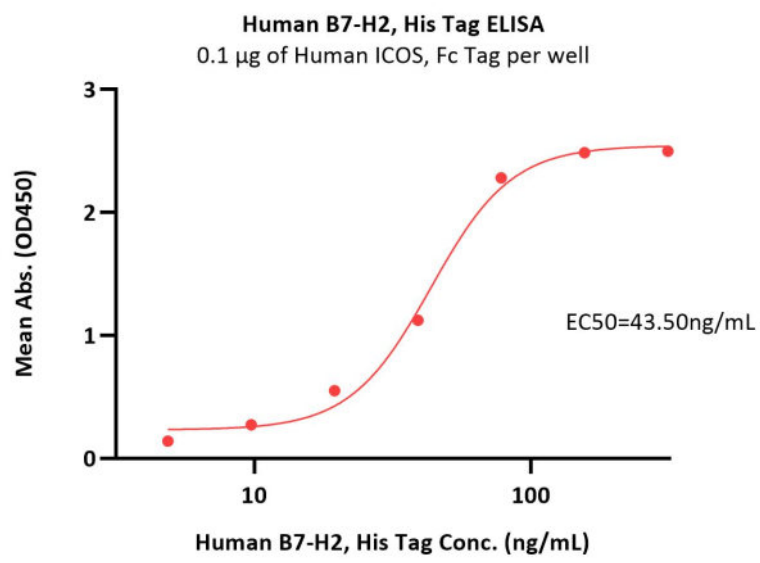
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human B7-H2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Human ICOS, Fc Tag (Cat. No. ICS-H5258) at 1 µg/mL (100 µL/well) can bind Human B7-H2, His Tag (Cat. No. B72-H5221) with a linear range of 5-78 ng/mL (QC tested).

Background

ICOS ligand (ICOSLG) is also known as B7 homolog 2 (B7-H2), B7-related protein 1 (B7RP-1) and CD antigen CD275, which belongs to the immunoglobulin superfamily and BTN/MOG family. ICOSLG contains one Ig-like C2-type (immunoglobulin-like) domain and one Ig-like V-type (immunoglobulin-like) domain. Isoform 1 is widely expressed, while isoform 2 is detected only in lymph nodes, leukocytes and spleen. B7-H2 is ligand for the T-cell-specific cell surface receptor ICOS. B7-H2 acts as a costimulatory signal for T-cell proliferation and cytokine secretion and induces also B-cell proliferation and differentiation into plasma cells. B7-H2 could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.