



### Synonym

CD86,B7-2,B70,CD28LG2,LAB72,MGC34413

### Source

Mouse B7-2, His Tag(CD6-M52H0) is expressed from human 293 cells (HEK293). It contains AA Val 24 - Glu 245 (Accession # [NP\\_062261.3](#)).

Predicted N-terminus: Val 24

### Molecular Characterization

B7-2(Val 24 - Glu 245)  
NP\_062261.3 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 27.1 kDa. The protein migrates as 40-66 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.

>95% as determined by SEC-MALS.

### 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

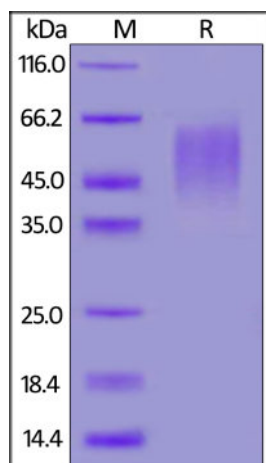
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

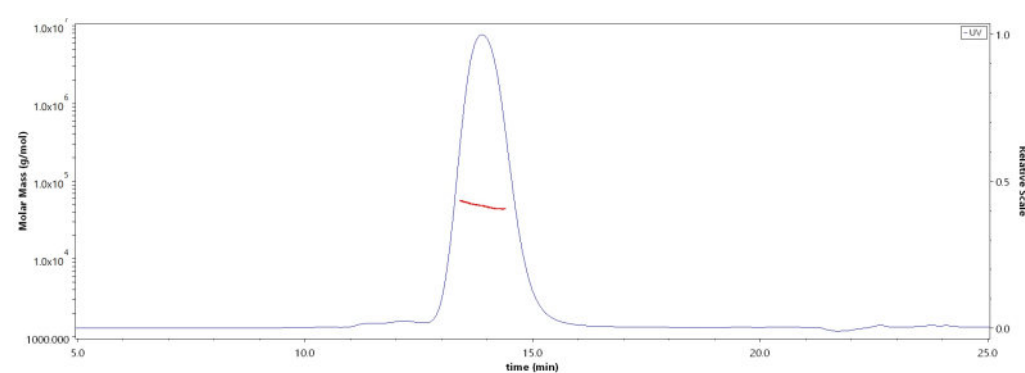
### SDS-PAGE



Mouse B7-2, 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

### SEC-MALS

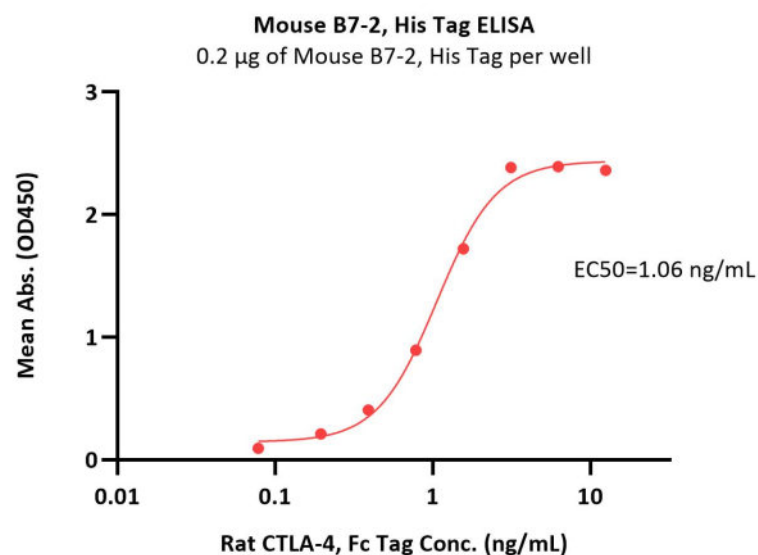


The purity of Mouse B7-2, His Tag (Cat. No. CD6-M52H0) is more than 95% and the molecular weight of this protein is around 45-55 kDa verified by SEC-MALS.

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Immobilized Mouse B7-2, His Tag (Cat. No. CD6-M52H0) at 2 µg/mL (100 µL/well) can bind Rat CTLA-4, Fc Tag (Cat. No. CT4-R5259) with a linear range of 0.2-3 ng/mL (QC tested).

## Background

Cluster of Differentiation 86 (CD86) is also known as B-lymphocyte activation antigen B7-2, is a type I membrane protein that is a member of the immunoglobulin superfamily, and is constitutively expressed on interdigitating dendritic cells, Langerhans cells, peripheral blood dendritic cells, memory B cells, and germinal center B cells. Additionally, B72 is expressed at low levels on monocytes and can be upregulated through interferon  $\gamma$ . CD86 is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for attenuation of regulation and cellular disassociation). CD86 works in tandem with CD80 to prime T cells. Recent study has revealed that B7-2 promotes the generation of a mature APC repertoire and promotes APC function and survival. Furthermore, the B7 proteins are also involved in innate immune responses by activating NF- $\kappa$ B-signaling pathway in macrophages. CD86 thus is regarded as a promising candidate for immune therapy. CD86<sup>+</sup> macrophages in Hodgkin lymphoma patients are an independent marker for potential nonresponse to firstline-therapy.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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