

Bioactive

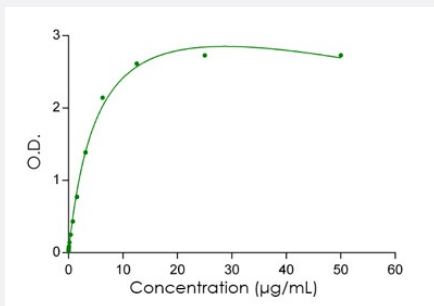
HuPro®

CD86 (Human) Recombinant Protein

Catalog # P7567

Size 1 mg

Applications



Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description

Human CD86 (P42081, 20 a.a. - 247 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cell.

Sequence

LSGAAPLKIQAYFNETADLPCQFANSQNQSLSELVFWQDQENLVLNEVYLGKEKFDVHVKYM
GRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQMNSELSVLNFSQPEIPISNITENVYI
NLTCSSIHGYPEPKMSVLLRTKNSTIEYDGVMMQKSQDNVTELYDVSISLSVSFPDVTSNMTIFCILE
TDKTRLLSSPFSIELEDPPPPDHIP

Host

Mammals

Theoretical MW (kDa)

65-80

Form

Lyophilized

Preparation Method

Mammalian cell (HEK293) expression system

Purity

> 95% by SDS-PAGE

Endotoxin Level

< 0.2 EU per 1 ug of protein (determined by gel clotting method)

Activity

Immobilized B7-2/CD86, hFc, Human at 5.0 ug/mL (100 uL/well) can bind human Biotin-CD28-Fc.

Storage Buffer

Lyophilized from sterile distilled Water up to 100 ug/mL

Storage Instruction

Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Note

Result of bioactivity analysis
Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CD86

Entrez GeneID[942](#)**Protein Accession#**[P42081](#)**Gene Name**

CD86

Gene Alias

B7-2, B70, CD28LG2, LAB72, MGC34413

Gene Description

CD86 molecule

Omim ID[601020](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequence has not been determined. [provided by RefSeq]

Other Designations

B-lymphocyte activation antigen B7-2|B7-2 antigen|CD28 antigen ligand 2|CD86 antigen|CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)|CTLA-4 counter-receptor B7.2

Pathway

- [Allograft rejection](#)

- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)
- [Systemic lupus erythematosus](#)
- [Toll-like receptor signaling pathway](#)
- [Type I diabetes mellitus](#)

Disease

- [Acute Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hypersensitivity](#)
- [Infant](#)

- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Multiple Sclerosis](#)
- [Papillomavirus Infections](#)
- [Pemphigus](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Scleroderma](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)