

Bioactive

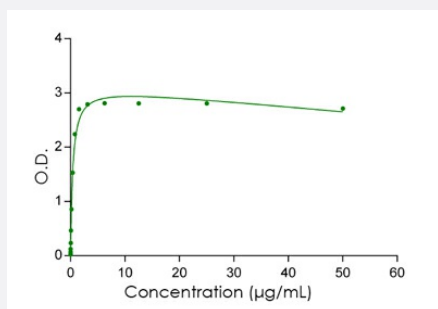
HuPro®

CD28 (Human) Recombinant Protein

Catalog # P7564

Size 1 mg

Applications



Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description

Human CD28 (P10747, 19 a.a. - 152 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cell.

Sequence

NKILVKQSPMLVAYDNAVNLSCKYSYNLFSREFRASLHKGLDSAVEVCVVYGNYSQQQLQVYSKTG
FNCDGKLGNESVTFYLNLYVNQTDIYFCKIEVMYPPPYLDNEKSNGTIIHVKGKHLCPSPFLPGPS
KP

Host

Mammals

Theoretical MW (kDa)

66-70

Form

Lyophilized

Preparation Method

Mammalian cell (HEK293) expression system

Purity

> 97% by SDS-PAGE

Endotoxin Level

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

Activity

Immobilized CD28, hFc, Human at 2.0 ug/mL (100 uL/well) can bind human Biotin-B7-1 (CD80) Fc when detected by Streptavidin-HRP second antibody.

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 — CD28

Entrez GeneID[940](#)**Protein Accession#**[P10747](#)**Gene Name**

CD28

Gene Alias

MGC138290, Tp44

Gene Description

CD28 molecule

Omim ID[186760](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

CD28 costimulation is essential for CD4 (MIM 186940)-positive T-cell proliferation, survival, interleukin-2 (IL2; MIM 147680) production, and T-helper type-2 (Th2) development.[supplied by OMIM]

Other Designations

CD28 antigen|CD28 antigen (Tp44)|T-cell-specific surface glycoprotein

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)

- [Systemic lupus erythematosus](#)
- [T cell receptor signaling pathway](#)
- [Type I diabetes mellitus](#)

Disease

- [Acute Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Behcet Syndrome](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Celiac Disease](#)
- [Cholangitis](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [Hodgkin Disease](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Kidney Failure](#)
- [Leukemia](#)

- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Occupational Diseases](#)
- [Pemphigus](#)
- [Respiratory Syncytial Virus Infections](#)
- [Stroke](#)
- [Uterine Cervical Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)