

Bioactive

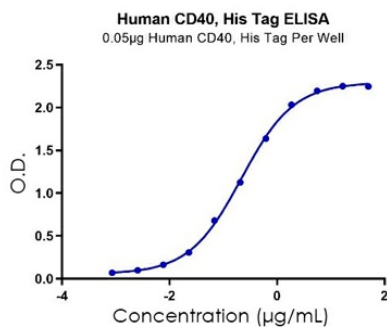
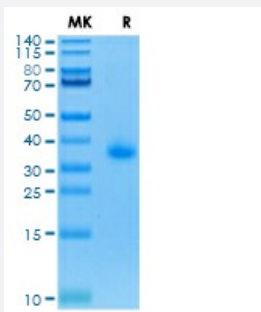
HuPro®

CD40 (Human) Recombinant Protein

Catalog # P7655

Size 100 ug

Applications



Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description

Human CD40 (P25942, 21 a.a. - 193 a.a.) partial recombinant protein with His tag at C-terminus expressed in Expi293 cells.

Sequence

EPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETECLPCGESEFLDTWNRETHCHQHKYCD
PNLGLRVQQKGTSETDTICTCEEGWHCTSEACESCVLHRSCSPGFGVKQIATGVSDTICEPCPV
GFFSNVSSAFEKCHPWTSCETKDLVVQQAGTNKTDVVCGPQDRLR

Host

Mammals

Theoretical MW (kDa)

35-40

Form

Lyophilized

Preparation Method

Mammalian cell (Expi293) expression system

Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	Immobilized Human CD40, His Tag at 0.5 ug/mL (100 uL/Well). Dose response curve for Human CD 40L, hFc Tag with the EC ₅₀ of 0.22 ug/mL determined by ELISA.
Quality Control Testing	SDS-PAGE under reducing condition
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/mL
Storage Instruction	Store at -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 — CD40

Entrez GeneID	958
Protein Accession#	P25942
Gene Name	CD40
Gene Alias	Bp50, CDW40, MGC9013, TNFRSF5, p50
Gene Description	CD40 molecule, TNF receptor superfamily member 5
Omim ID	109535 606843
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

B cell surface antigen CD40|B cell-associated molecule|CD40 antigen|CD40 antigen (TNF receptor superfamily member 5)|CD40 type II isoform|CD40L receptor|OTTHUMP00000031699|OTTHUMP00000031700|nerve growth factor receptor-related B-lymphocyte activation mol

Pathway

- [Allograft rejection](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cytokine-cytokine receptor interaction](#)
- [Primary immunodeficiency](#)
- [Systemic lupus erythematosus](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)
- [Brain Ischemia](#)
- [Bronchiolitis](#)

- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Edema](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hashimoto Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hodgkin Disease](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Mucocutaneous Lymph Node Syndrome](#)

- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Occupational Diseases](#)
- [Pemphigus](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rupture](#)
- [Stroke](#)
- [Thyroiditis](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Wegener Granulomatosis](#)
- [Werner syndrome](#)