

## Active Recombinant Human CD80, HIgG1 Fc-tagged

Cat. No. CD80-617H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human CD80 [B7-1] (NP_005182.1) (Val35-Asn242) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	35-242 a.a.
<b>Description</b>	The protein encoded by this gene is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured by its ability to induce IL-2 secretion by Jurkat human acute T cell leukemia cells.
<b>Molecular Mass</b>	50 KDa (monomer)
<b>AA Sequence</b>	Val35-Asn242
<b>Endotoxin</b>	<0.06 eu/µg="" as="" determined="" by="" lal="" test.="">

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100µg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	CD80 CD80 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD80
<b>Synonyms</b>	CD80; CD80 molecule; CD28LG, CD28LG1, CD80 antigen (CD28 antigen ligand 1, B7 1 antigen) , CD80 molecule; T-lymphocyte activation antigen CD80; B lymphocyte activation antigen B7; B7 1; B7.1; activation B7-1 antigen; costimulatory factor CD80; CTLA-4 counter-receptor B7.1; B-lymphocyte activation antigen B7; costimulatory molecule variant IgV-CD80; CD80 antigen (CD28 antigen ligand 1, B7-1 antigen); B7; BB1; B7-1; LAB7; CD28LG; CD28LG1;
<b>Gene ID</b>	941
<b>mRNA Refseq</b>	NM_005191
<b>Protein Refseq</b>	NP_005182
<b>MIM</b>	112203
<b>UniProt ID</b>	P33681

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**Chromosome  
Location**

3q13.3-q21

**Pathway**

Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent PI3K/Akt signaling, organism-specific biosystem;

**Function**

coreceptor activity; protein binding; receptor activity;

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