

## Recombinant Human CD80 Protein, C-His-tagged

Cat. No. CD80-185H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD80 Protein with C-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>CD80 (B7-1, BB1) and CD86 (B7-2, B70) are members of the B7 family of cell surface ligands that regulate T cell activation and immune responses. CD80 is expressed on activated antigen presenting cells, including dendritic cells, B cells, monocytes, and macrophages. CD86 is expressed on resting monocytes, dendritic cells, activated B lymphocytes, and can be further upregulated in the presence of inflammation. CD80 and CD86 are ligands for CD28, which functions as a T cell costimulatory receptor. Interaction of CD28 with CD80 or CD86 provides the second signal required for naïve T cell activation, T cell proliferation, and acquisition of effector functions. Alternatively, CD80 and CD86 also act as ligands to CTLA-4, which results in the downregulation of T cell activity.</p>
<b>Molecular Mass</b>	~23 kDa
<b>AA Sequence</b>	<p>VIHVTKEVKEVATLSCGHNVSV EELAQTRIWQKEKKMVLTMMSGDMNIWPEYKNR  TIFDITNNLSIVILALRPSDEGTYECVVLKYEKDAFKREHLAEVTL SVKADFPTPSISDF  EIPTSNIRRIICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDNFMT  TNHSFMCLIKYGHLRVNQTFNWNTTKQEHFPDN</p>
<b>Purity</b>	Transferred into competent cells and the supernatant was purified by NI column

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affinity chromatography and the purity is > 85% (by SDS-PAGE).

**Notes**

For research use only, not for use in diagnostic procedure.

**Storage**

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

**Concentration**

≥0.5 mg/mL

**Storage Buffer**

PBS, 4M Urea, pH7.4

## GENE INFORMATION

**Gene Name**

CD80 CD80 molecule [ Homo sapiens (human) ]

**Official Symbol**

CD80

**Synonyms**

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;

**Gene ID**

941

**mRNA Refseq**

NM\_005191

**Protein Refseq**

NP\_005182

**MIM**

112203

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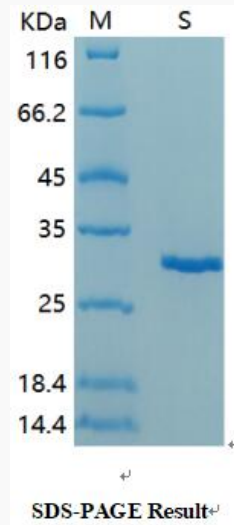
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UniProt ID

P33681

SDS-PAGE



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