

## B7-1/CD80 Protein, Human (208a.a, HEK293, His)

<b>Cat. No.:</b>	HY-P70651
<b>Synonyms:</b>	CD80; Activation B7-1 antigen; B7; BB1; CD28LG1; CD28LGB7-1 antigen; T-lymphocyte activation antigen CD80
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P33681 (V35-N242)
<b>Gene ID:</b>	941
<b>Molecular Weight:</b>	38-60 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre>V I H V T K E V K E   V A T L S C G H N V   S V E E L A Q T R I   Y W Q K E K K M V L T M M S G D M N I W   P E Y K N R T I F D   I T N N L S I V I L   A L R P S D E G T Y E C V V L K Y E K D   A F K R E H L A E V   T L S V K A D F P T   P S I S D F E I P T S N I R R I I C S T   S G G F P E P H L S   W L E N G E E L N A   I N T T V S Q D P E T E L Y A V S S K L   D F N M T T N H S F   M C L I K Y G H L R   V N Q T F N W N T T K Q E H F P D N</pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The CD80 Protein plays a pivotal role in the costimulatory signal essential for T-lymphocyte activation, facilitating T-cell proliferation and cytokine production upon binding to CD28. Conversely, when interacting with CTLA-4, CD80 elicits opposite effects, inhibiting T-cell activation. In the context of microbial infection, CD80 also acts as a receptor for adenovirus subgroup B, further exemplifying its multifaceted involvement in immune responses and its recognition of diverse signaling cues. The intricate modulation of T-cell activation by CD80 underscores its significance in orchestrating adaptive immune responses and highlights its versatile functions in different physiological contexts.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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