

CD80 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702242
Synonyms:	T-lymphocyte activation antigen CD80; Activation B7-1 antigen; BB1; CTLA-4 counter-receptor B7.1
Species:	Human
Source:	E. coli Cell-free
Accession:	P33681 (V35-V288)
Gene ID:	941
Molecular Weight:	32.8 kDa

PROPERTIES

AA Sequence	<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 L L P S W A I T L I S V N G I F V I C C L T Y C F A P R C R E R R R N E R L R R E S V R P V </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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
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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.

Caution: Product has not been fully validated for medical applications. For research use only.

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