

## B7-1/CD80 Protein, Cynomolgus (208a.a, HEK293, Fc)

Cat. No.:	HY-P7834
Synonyms:	rCynCD80/B7-1, Fc; T-lymphocyte activation antigen CD80; Activation B7-1 antigen; B7; CD80
Species:	Cynomolgus
Source:	HEK293
Accession:	G7NXN7 (V35-N242)
Gene ID:	102140078
Molecular Weight:	70-90 kDa

### PROPERTIES

AA Sequence	<p>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</p> <p>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</p> <p>E C V V L K Y E K D    A F K R E H L A E V    M L S V K A D F P T    P S I T D F E I P P</p> <p>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 S T T V S Q D P E</p> <p>T E L Y T 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 P</p> <p>K Q E H F P D N</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM Glycine, pH 7.5.
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 <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).
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	<p>CD80 is a membrane receptor and costimulatory cytokine used by immune cells to limit cancer progression. CD80 is activated by binding to CD28 or CTLA-4, thereby inducing T cell proliferation and cytokine production. The immune evasion mechanism of colon cancer is related to the low surface expression of CD80. When CD80 is upregulated on the surface of tumor cells, the anti-tumor immune response can be successfully activated. Normal expression levels of CD80 are frequently lost during tumor progression, possibly due to selective pressure from the immune system. TP53 is a regulator of CD80 expression in human cancer cells, and CD80 expression is strongly correlated with TP53 activation. TP53 induces antitumor</p>
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immune responses through induction of CD80 in human cancer epithelial cells. CD80 serves as a receptor for adenovirus subtype B and may play a role in lupus neuropathy. CD80/CD86-conjugated adenovirus serotype 5 (Ad5)/3 chimeras improve expression and transduction efficiency with excellent transduction efficiency and low toxicity in brain tumors. Additionally, measurement of urinary CD80 excretion levels was able to differentiate between minimal change disease and focal segmental glomerulosclerosis in a mouse model of foot process effacement and human lupus nephritis.

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

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