

B7-1/CD80 Protein, Rat (HEK293, His)

Cat. No.:	HY-P7634
Synonyms:	rRtB7-1, His; T-lymphocyte activation antigen CD80; Activation B7-1 antigen; CD80
Species:	Rat
Source:	HEK293
Accession:	O35187 (V30-Q248)
Gene ID:	25408
Molecular Weight:	38-60 kDa

PROPERTIES

AA Sequence	<p>V G L F Q I S S G I V G Q V S K S V R E K A L L S C D Y K F C S E E Q S I H R I</p> <p>Y W Q K H D K M V L S V I S G V P E V W P E Y K N R T V Y</p> <p>D I A N N Y S F S L L G L I L S D R G T Y T C V V Q R Y E G E S Y V V K H L T T</p> <p>V E L S V R A D F P T P N I T E S G N P S A D I K R I T C F A S G G F P K P R L</p> <p>S W L E N G R E L N G I N T T I S Q D P E S E L Y T I S S Q L D F N T T Y D H F</p> <p>I D C F I E Y G D A H V S Q N F T W V K P P E D P P D E K Q H H H H H H</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
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 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	B7-1 and PD-L1 interact with an affinity intermediate to that of B7-1:CD28 and B7-1:CTLA-4. The PD-L1:B7-1 interface overlaps with the B7-1:CTLA-4 and PD-L1:PD-1 interfaces. B7-1:PD-L1 interaction can inhibit T cell proliferation and cytokine production ^[1] .
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REFERENCES

[1]. Manish J Butte, et al. Programmed death-1 ligand 1 interacts specifically with the B7-1 costimulatory molecule to inhibit T cell responses. Immunity. 2007 Jul;27(1):111-22.

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

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