

B7-1/CD80 Protein, Mouse (209a.a, HEK293, His)

Cat. No.:	HY-P7633
Synonyms:	rMuB7-1, His; T-lymphocyte activation antigen CD80; Activation B7-1 antigen; CD80
Species:	Mouse
Source:	HEK293
Accession:	Q00609 (V38-N246)
Gene ID:	12519
Molecular Weight:	38-55 kDa

PROPERTIES

AA Sequence	<pre>V D E Q L S K S V K D K V L L P C R Y N S P H E D E S E D R I Y W Q K H D K V V L S V I A G K L K V W P E Y K N R T L Y D N T T Y S L I I L G L V L S D R G T Y S C V V Q K K E R G T Y E V K H L A L V K L S I K A D F S T P N I T E S G N P S A D T K R I T C F A S G G F P K P R F S W L E N G R E L P 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 R N H T I K C L I K Y G D A H V S E D F T W E K P P E D P P D S K N H H H H H H</pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH7.4.
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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA