

B7-1/CD80 Protein, Mouse (Biotinylated, HEK293, His)

Cat. No.:	HY-P77523
Synonyms:	T-lymphocyte activation antigen CD80; Activation B7-1 antigen; BB1; B7; CD80; CD28LG; LAB7
Species:	Mouse
Source:	HEK293
Accession:	Q00609 (M1-K245)
Gene ID:	12519
Molecular Weight:	Approximately 25.1 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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/CD80 Protein plays a pivotal role in the costimulatory signal necessary for the activation of T lymphocytes. Its engagement with CD28 or CTLA-4 receptors is integral to inducing T-cell proliferation and cytokine production. The interaction between B7-1/CD80 and these receptors orchestrates critical signaling events that regulate immune responses, influencing the activation and function of T lymphocytes. This molecular interaction serves as a key checkpoint in the complex network of cellular signals governing the immune system's dynamic responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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