

Recombinant Human B7-1/CD80 Protein

Catalog No	RP00065	Category	Protein
Description	Recombinant Human B7-1/CD80 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Val35-Asn242) of human B7-1/CD80 (Accession #NP_005182.1) fused with a 6×His tag at the C-terminus.		
Bio-Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human B7-1/CD80 is immobilized at 1 µg/mL (100 µL/well), the concentration of Recombinant Human CTLA-4 Fc Chimera that produces 50% of the optimal binding response is approximately 0.05-0.3 µg/mL.		

Sequence Information

Species	Human	Gene ID	941
Tags	6×His tag at the C-terminus	Swiss Prot	P33681
Synonyms	B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB7		
AA Sequence	VIHVTKEVKEVATLSCGHNVSVVEELAQTRIIYWQKEKMKMVLTMMSGDMNIWPEYKNRTIFD ITNNSIVILALRPSDEGTYESVVLKYEKDAFKREHLAEVTLVKADFPPTPSISDFEIPT SNIRRIICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDNFMTTNHSF MCLIKYGHRLRVNQTFNWNNTTKQEHFPDN		

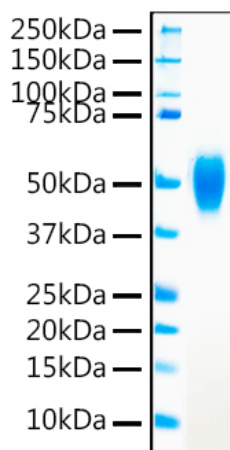
Product information

Source	HEK293 cells
Purity	> 97% by SDS-PAGE.
Endotoxin	< 0.1 EU/µg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Background

The protein is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy.

SDS-PAGE



Recombinant Human B7-1/CD80 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 45-58 kDa.

Bioactivity