

Recombinant Human B7-1 (C-6His)

Catalog #	EPT046
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Activation B7-1 Antigen is
	produced by our Mammalian expression system and
	the target gene encoding Val35-Asn242 is expressed
	with a 6His tag at the C-terminus.
Accession	P33681
Synonyms	CD80; Activation B7-1 antigen; B7; BB1; CD28LG1;
	CD28LGB7-1 antigen; T-lymphocyte activation
	antigen CD80
Mol Mass	24.7 KDa
AP Mol Mass	38-60 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH
	7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at < -20 °C, STORAGE though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months. Cluster of Differentiation 80, also called B7-1, is a BACKGROUND member of cell surface immunoglobulin superfamily which plays key, yet distinct roles in the activation of T cells. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4. Studies have shown that CTLA-4 binds mostly to CD80. The structure



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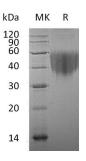
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presents two extracellular domains: a membrane distal variable-like domain (IgV) and a membrane proximal constant-like domain (IgC) along with an lg intracellular domain. Both IgV and IgC consist of anti-parallel beta sandwiches joined by a short linker region. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells.



SDS-PAGE



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