

For Research Use Only

Recombinant Human CD80 protein (Myc Tag, His Tag)



Catalog Number: Eg0060

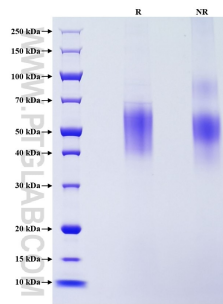
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/μg protein, LAL method</p> <p>Source: HEK293-derived Human CD80 protein Val35-Asn242 (Accession# P33681-1) with a Myc tag and a His tag at the C-terminus.</p> <p>GeneID: 941</p> <p>Accession: P33681-1</p> <p>Predicted Molecular Mass: 28.9 kDa</p> <p>SDS-PAGE: 40-70 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>CD80 (also known as B7-1) is a type I membrane protein that is a member of the immunoglobulin superfamily, with an extracellular immunoglobulin constant-like domain and a variable-like domain required for receptor binding. It is expressed on antigen-presenting cells (APCs), including B cells, dendritic cells, monocytes, and macrophages. CD80 is the receptor for the proteins CD28 and CTLA-4 found on the surface of T-cells. It is involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation. CD80 also acts as a cellular attachment receptor for adenovirus subgroup B.</p>		
References	<ol style="list-style-type: none">1. Peach RJ. et al. (1995). J Biol Chem. 36: 21181-21187.2. Vasilevko V. et al. (2002). DNA Cell Biol. 3: 137-149.3. Short JJ. et al. (2006). Virus Res. 122:144-153.		
Synonyms	CD80, Activation B7 1 antigen, Activation B7-1 antigen, B7, B7 1		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human CD80 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.