

# Recombinant Human CD80/B7-1 protein (rFc Tag)

Catalog Number: Eg3505

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;1.0 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human CD80/B7-1 protein Val35-Asn242 (Accession# P33681-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 941</p> <p><b>Accession:</b> P33681-1</p> <p><b>Predicted Molecular Mass:</b> 50.1 kDa</p> <p><b>SDS-PAGE:</b></p> <p><b>Formulation:</b> Lyophilized from sterile 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><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> 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"><li>1. Peach, R J et al. The Journal of biological chemistry vol. 270,36 (1995): 21181-7.</li><li>2. Vasilevko, Vitaly et al. DNA and cell biology vol. 21,3 (2002): 137-49.</li><li>3. Short, Joshua J et al. Virus research vol. 122,1-2 (2006): 144-53.</li></ol>		
Synonyms	CD80, Activation B7 1 antigen, Activation B7-1 antigen, B7, B7 1		

## Selected Validation Data

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

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