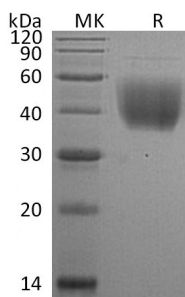


## Summary

<b>Name</b>	B7-1/CD80/T-lymphocyte activation antigen CD80
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Rat T-lymphocyte Activation Antigen CD81 is produced by our Mammalian expression system and the target gene encoding V1a30-Gln248 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	O35187
<b>Host</b>	Human Cells
<b>Species</b>	Rat
<b>Predicted Molecular Mass</b>	25.7 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 6% Trehalose, 4% Mannitol, 0.05% Tween 80, pH7.0.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	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.

## SDS-PAGE image



## Background

**Product Name: Recombinant Rat B7-1 (C-6His)**  
**Catalog #: PHR1663**



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**Alternative Names**

T-lymphocyte activation antigen CD80; Activation B7-1 antigen; B7; CD80

**Background**

Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily which plays key, yet distinct roles in the activation of T cells. B7-1/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B-cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20-100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response.

**Note**

For Research Use Only , Not for Diagnostic Use.