

Rev03  
 Update: Aug,08,2025

**DATASHEET**

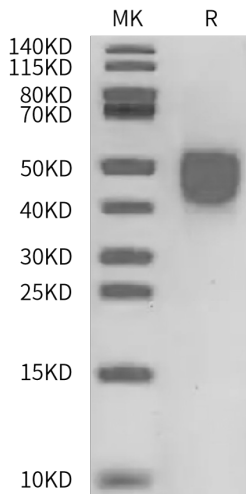
# CD28, His, Rat

Cat. No.: Z04350

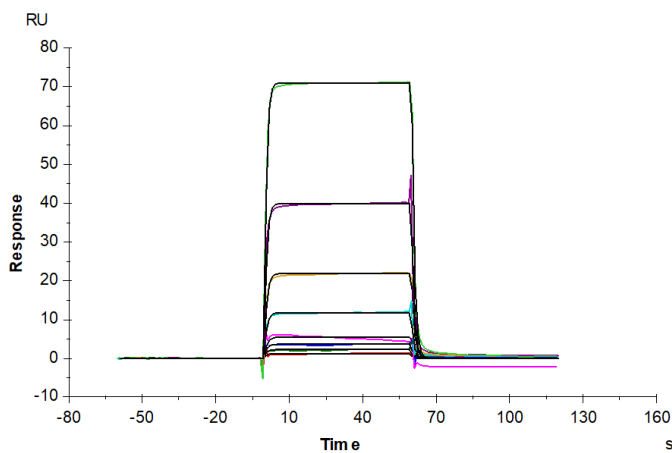
## Product Introduction

<b>Species</b>	Rat
<b>Protein Construction</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>CD28 (Asn20-Leu150)</b>            Accession # P31042         </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> <b>His</b> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Human B71, hFc Tag captured on CM5 Chip via Protein A can bind CD28, His, Rat in SPR assay (Biacore T200). Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	16.66 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 40-55 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

## Examples



CD28, His, Rat on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Human B7-1, hFc Tag captured on CM5 Chip via Protein A can bind CD28, His, Rat, His Tag with an affinity constant of 42.64  $\mu$ M as determined in SPR assay (Biacore T200).

## Background

**Target Background :** CD28 is the receptor for CD80 (B7-1) and CD86 (B7-2) proteins. When activated by Toll-like receptor ligands, the CD80 expression is upregulated in antigen presenting cells (APCs). The CD86 expression on antigen presenting cells is constitutive. CD28 is the only B7 receptor constitutively expressed on naive T cells.

**Synonyms :** CD28 antigen (Tp44); CD28 molecule; CD28

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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