

Rev01  
 Update: Jan,13,2025

## DATASHEET

# CD28H/IGPR-1, His, Human

Cat. No.: Z04183

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div> <div>CD28H/IGPR-1 (Leu23-Gly150) Accession # Q96BF3-1</div> <div>His</div> </div> <div> <div>N-term</div> <div>C-term</div> </div>
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per ug by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized CD28H/IGPR-1, His, Human at 5µg/ml (100µl/well) on the plate can bind Human B7H7, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	15.1 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 42-52 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.

## Background

**Target Background :** CD28H is constitutively expressed on all naive T cells. Repetitive antigenic exposure, however, induces a complete loss of CD28H on many T cells, and CD28H negative T cells have a phenotype of terminal differentiation and senescence. After extensive screening in a receptor array, a B7-like molecule, B7 homologue 5 (B7-H5), was identified as a specific ligand for CD28H.

**Synonyms :** TMIGD2; IGPR1; IGPR-1; CD28H; TPC1

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

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