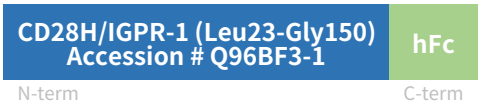
Rev04
Update: Aug,08,2025

DATASHEET

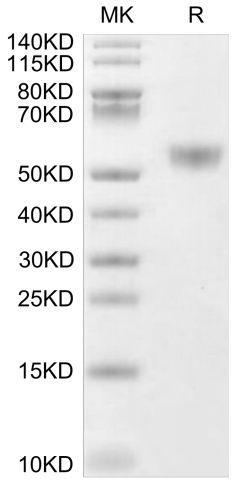
CD28H/IGPR-1 hFc Chimera, Human

Cat. No.: Z04184

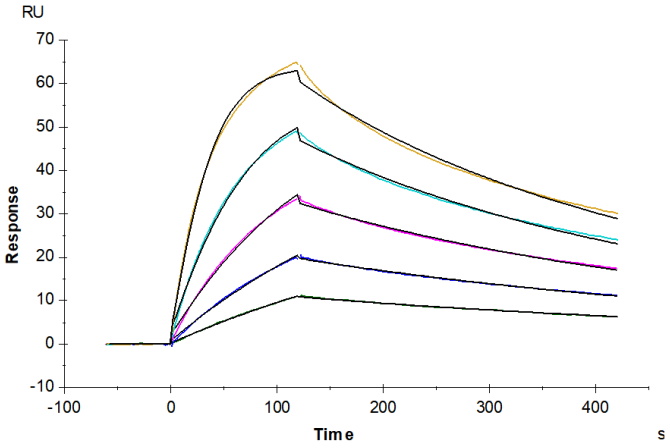
Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human B7H7, His Tag at 5μg/ml (100μl/well) on the plate can bind CD28H/IGPR-1 hFc Chimera, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	40.7 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	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.

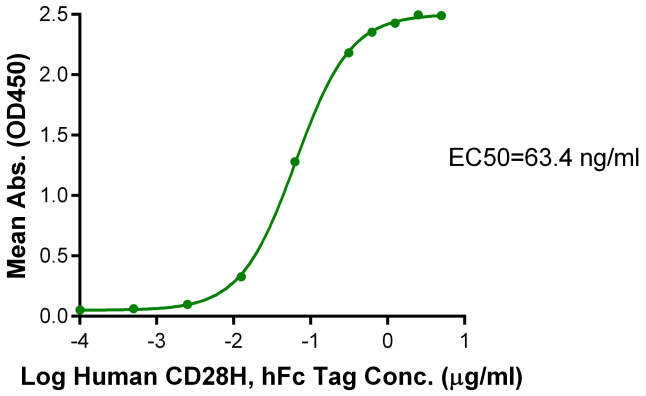
Examples



CD28H/IGPR-1 hFc Chimera, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



CD28H/IGPR-1 hFc Chimera, Human, His Tag captured on CM5 Chip via anti-his antibody can bind Human CD28H, hFc Tag with an affinity constant of 7.86 nM as determined in SPR assay (Biacore T200).



Immobilized Human B7-H7, His Tag at 5 μg/ml (100 μL/well) on the plate. Dose response curve for CD28H/IGPR-1 hFc Chimera, Human, hFc Tag with the EC50 of 63.4 ng/ml determined by ELISA.

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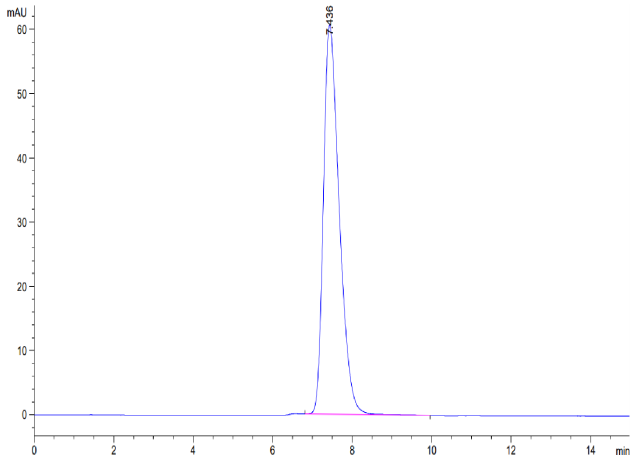

The purity of CD28H/IGPR-1 hFc Chimera, Human is greater than 95% as determined by SEC-HPLC.

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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