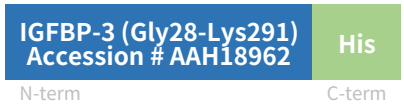
Rev03
Update: Aug,08,2025

DATASHEET

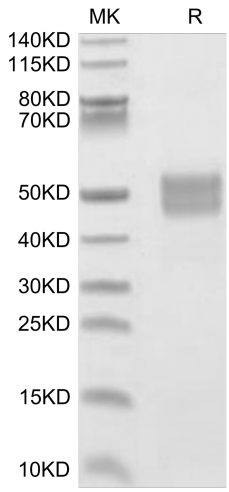
IGFBP-3, His, Human

Cat. No.: Z05409

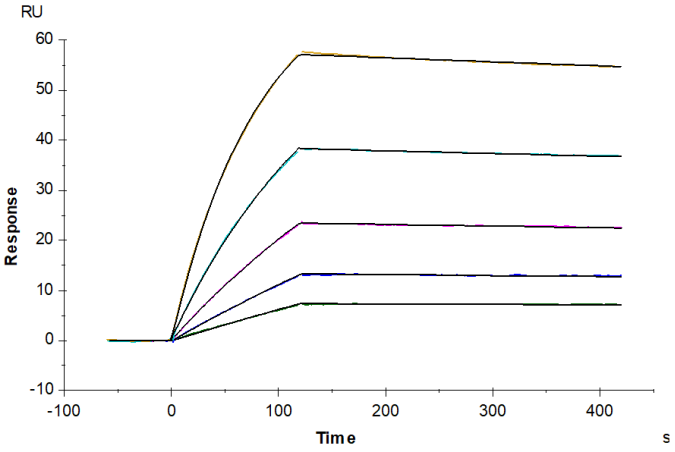
Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized IGFBP-3, His, Human at 2μg/ml (100μl/well) on the plate can bind Human IGFII, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	29.8 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 45-60 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.

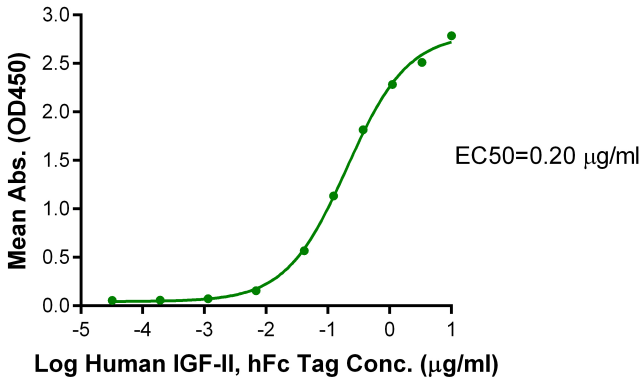
Examples



IGFBP-3, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



IGFBP-3, His, Human, His Tag captured on CM5 Chip via anti-his antibody can bind Human IGFI, hFc Tag with an affinity constant of 2.32 nM as determined in SPR assay (Biacore T200).



Immobilized IGFBP-3, His, Human, His Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for Human IGF-II, hFc Tag with the EC50 of 0.20 μg/ml determined by ELISA.

Background

Target Background : Insulin-like growth factor binding protein-3 (IGFBP-3) is a p53 tumor suppressor-regulated protein and a major carrier for IGFs in circulation. Among six high-affinity IGFBPs, which are IGFBP-1 through 6, IGFBP-3 is the most extensively investigated IGFBP species with respect to its IGF/IGF-I receptor (IGF-IR)-independent biological actions beyond its endocrine/paracrine/autocrine role in modulating IGF action in cancer.

Synonyms : IBP3; IGFBP3; IGFBP-3; BP-53

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

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