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Human IGF-I Recombinant Protein (85-173)

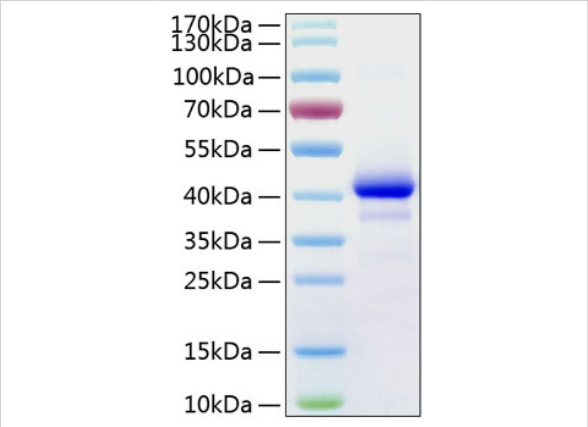
CATALOG NUMBER: 85-173

Specifications

Species	Human
Source Species	HEK293 cells
Fusion Tag	C-hFc&His
Tested Applications	Bioactivity Test, ELISA, Immunogen, SDS-PAGE, WB
Predicted Molecular Weight	34.44 kDa
Biological Activity	1.Measured by its ability to stimulate p70 S6 Kinase(Thr389) and p85 S6 Kinase(Thr412) autophosphorylation in 293T human embryonic kidney cells. 0.01-1 ng/mL of Recombinant Human IGF1 can effectively enhance p70 S6 Kinase(Thr389) and p85 S6 Kinase(Thr412) autophosphorylation. 2.Measured by its binding ability in a functional ELISA. Immobilized recombinant human IGFBP6 at 1 μg/mL (100 μL/well) can bind recombinant human IGF1 with a linear range of 30-250 ng/mL. 3.Measured in a cell proliferation assay using MCF-7 cells. The ED_{50} for this effect is typically 7.5-30 ng/mL, corresponding to a specific activity of 3.33×10^{4}-1.33×10^{5}units/mg.

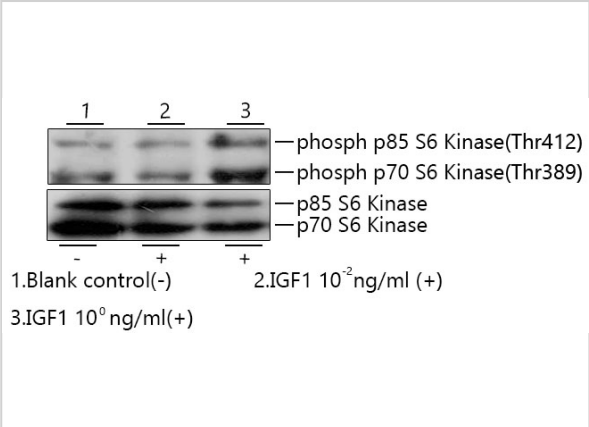
Properties

Purity	≥ 85 % as determined by SDS-PAGE.
Physical State	Lyophilized
Buffer	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.
Storage Conditions	Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.



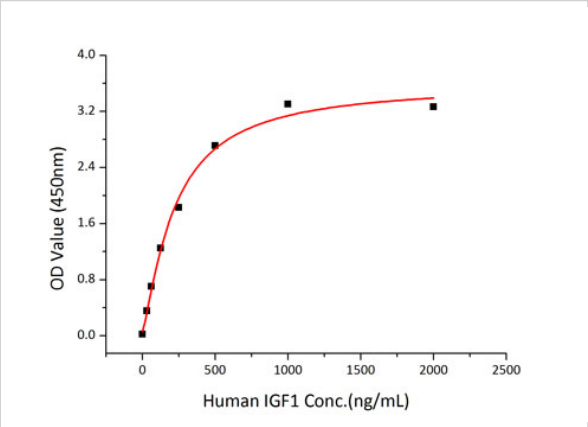
85-173_1

Recombinant Human IGF-I Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



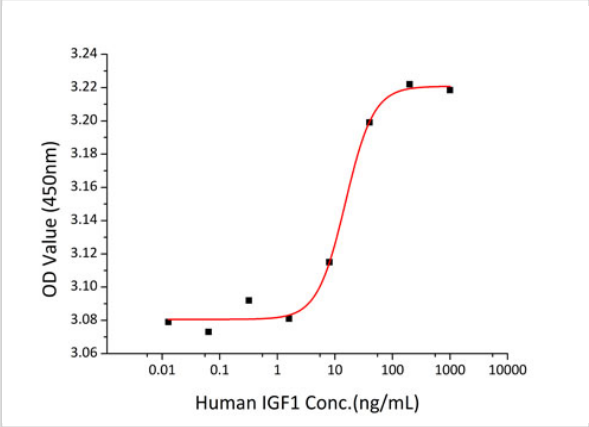
85-173_2

Recombinant Human IGF1 enhances p70S6 Kinase(Thr389) and p85 S6 Kinase(Thr412) autophosphorylation in 293T human embryonic kidney cells.0.01-1ng/mL of Recombinant Human IGF1 can effectively enhance...



85-173_3

Measured by its binding ability in a functional ELISA. Immobilized recombinant human IGFBP6 at 1μg/mL (100 μL/well) can bind recombinant human IGF1 with a linear range of 30-250ng/mL.



85-173_4

Recombinant Human IGF1 promotes the proliferation of MCF-7 cells. The ED_{50} for this effect is typically 7.5-30 ng/mL.

Disclaimer

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