

Human His₆IGFBP3 (hHis₆IGFBP3)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
50	#P17936	3486
Background	IGFBP3 is a multifunctional protein that plays a key role in regulation of IGF I/II activity, cell proliferation, and death. One of six high-affinity IGF binding proteins, IGFBP3 is the major species in circulation and is bound in a complex with ALS to 99% of hepatic IGF-I (1). Proteolytic degradation of IGFBP3 increases the bioavailability and activity of the IGF I/II (1). However, some biological activities of IGFBP3 are independent of the IGF/IGF-IR axis. IGFBP3 potentiates EGF-induced breast cancer cell proliferation <i>in vitro</i> by enhancing ERK phosphorylation and sphingosine kinase-mediated EGFR trans-activation (2,3). Conversely, IGFBP3 has been shown to induce apoptosis and inhibit NF-κB activity (4).	
Endotoxin	Less than 0.01 ng endotoxin/1 μg hHis ₆ IGFBP3.	
Purity	>95% as determined by SDS-PAGE of 6 μg reduced (+) and nonreduced (-) recombinant hHis ₆ IGFBP3. All lots are greater than 95% pure.	
Source / Purification	Recombinant Human His ₆ IGFBP3 (hHis ₆ IGFBP3) Gly28-Lys291 (Accession #NP_17936) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of hHis ₆ IGFBP3 was determined by inhibition of IGF-I induced AKT phosphorylation in human dermal fibroblasts. The ED ₅₀ of each lot is between 2.5-9 ng/ml.	
Background References	<ol style="list-style-type: none"> Jogie-Brahim, S. et al. (2009) <i>Endocr Rev</i> 30, 417-37. Martin, J.L. et al. (2003) <i>J Biol Chem</i> 278, 2969-76. Martin, J.L. et al. (2009) <i>J Biol Chem</i> 284, 25542-52. Han, J. et al. (2011) <i>Cancer Lett</i> 307, 200-10. 	

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