

Human Insulin-like Growth Factor I (hIGF-I)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
6	#P05019	3479
Background	Most circulating endocrine acting IGF-I is produced by hepatocytes, and paracrine or autocrine acting IGF-I is produced by defined cell types within specific tissues (1,2). Many neoplastic cells produce IGF-I, which regulates a number of cellular processes including energy metabolism, proliferation, and cell survival (3,4). IGF-I activity is regulated by one or more of the six extracellular IGF-binding proteins (IGFBPs). IGFBPs bind to IGF-I and most inhibit IGF-I binding to IGF-I receptor (IGFIR) (1,2). Some IGFBPs may increase cell responses to IGF-I. Binding of IGF-I to IGFIR activates the Akt, JNK, and Erk pathways (2). IGF-I and IGFIR are frequently expressed by cancer cells and may contribute to the proliferation and viability of a number of cancer types (1,2).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg hIGF-I.	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hIGF-I. All lots are greater than 98% pure.	
Source / Purification	Recombinant human IGF-I (hIGF-I) Gly49-Ala118 (Accession #P01343) was produced in <i>E. coli</i> at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hIGF-I was determined in a cell proliferation assay using primary human dermal fibroblasts. The ED ₅₀ of each lot is between 2-8 ng/ml.	
Background References	<ol style="list-style-type: none"> Pollak, M. (2008) <i>Nat Rev Cancer</i> 8, 915-28. Chitnis, M.M. et al. (2008) <i>Clin Cancer Res</i> 14, 6364-70. Karey, K.P. and Sirbasku, D.A. (1988) <i>Cancer Res</i> 48, 4083-92. Small, T.W. and Pickering, J.G. (2009) <i>J Biol Chem</i> 284, 24684-95. 	

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