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#19912**Mouse IGF-I Recombinant Protein**

10 µg


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MW (kDa):	UniProt ID:	Entrez-Gene Id:
7.7	#P05017	16000
Background	Most circulating endocrine-acting insulin-like growth factor I (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 binding between IGF-I and the 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	Endotoxin levels are less than or equal to 1 EU / 1 µg mIGF-I.	
Purity	A greater than or equal to 95% purity was determined by SDS-PAGE.	
Source / Purification	Recombinant mouse IGF-I was expressed in <i>E. coli</i> and is supplied in a lyophilized form.	
Bioactivity	The bioactivity of recombinant mIGF-I was determined in an FDC-P1 cell proliferation assay. The ED ₅₀ of each lot is less than or equal to 20 ng/ml.	
Background References	<ol style="list-style-type: none"> 1. Pollak, M. (2008) <i>Nat Rev Cancer</i> 8, 915-28. 2. Chitnis, M.M. et al. (2008) <i>Clin Cancer Res</i> 14, 6364-70. 3. Karey, K.P. and Sirbasku, D.A. (1988) <i>Cancer Res</i> 48, 4083-92. 4. Small, T.W. and Pickering, J.G. (2009) <i>J Biol Chem</i> 284, 24684-95. 	

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