

Human Epidermal Growth Factor (hEGF)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
6	#P01133	1950
Background	EGF is produced by epithelial cells, fibroblasts and many other cell types (1,2). Low molecular weight soluble EGF is generated through proteolysis of a larger ~130,000 molecular weight transmembrane precursor (1,2). Both soluble and membrane forms of EGF are active (2). EGF induces proliferation, differentiation, and survival of many cell types including tumor-derived cells (1,2, 3). There are multiple members of the EGF family and multiple members of the Erb/Her EGF receptor family. EGF binds to ErbB1/HER1 and induces homodimerization or induces heterodimerization with other Erb/Her members (1). Binding of EGF signals through the MAPK, PI3K/Akt, and STAT 5 pathways (1). EGF, EGF family members, EGF receptors and their signaling pathways are involved in many cancers and are targets for therapeutic intervention (1, 2).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg hEGF.	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hEGF. All lots are greater than 98% pure.	
Source / Purification	Recombinant human EGF (hEGF) Asn971-Arg1023 (Accession #NM_0011963) was produced in <i>E. coli</i> at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hEGF was determined in a MCF10A cell proliferation assay. The ED50 of each lot is between 10-600 pg/ml.	
Background References	<ol style="list-style-type: none"> Citri, A. and Yarden, Y. (2006) <i>Nat Rev Mol Cell Biol</i> 7, 505-16. Higashiyama, S. et al. (2008) <i>Cancer Sci</i> 99, 214-20. Xian, C.J. (2007) <i>Endocr Rev</i> 28, 284-96. 	

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