

Human Epigen



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
8	#Q6UW88	255324
Background	Epigen was identified as an EGF family member by amino acid sequence homology (1). The sequence was obtained from mouse keratinocyte mRNA. Epigen is expressed in normal human mammary tissue and in some prostate and breast carcinomas (2). Epigen binding to known EGF receptors is with lower affinity when compared to EGF. However, Epigen appears to be superior in inducing cell proliferation (2). Epigen induces responses in MDA-MB-468 breast carcinoma cells. Epigen also has effects on prostate cells and vascular endothelial cells (2). Epigen binds to ErbB1/Her1 (2). Binding causes receptor homodimerization and heterodimerization with other Erb/Her receptors (2).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg hEpigen.	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hEpigen. All lots are greater than 98% pure.	
Source / Purification	Recombinant human Epigen (hEpigen) Ala24-Ala104 (Accession #Q6UW88-1) was produced in <i>E. coli</i> at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hEpigen was determined in a MCF-10A cell proliferation assay. The ED ₅₀ of each lot is between 2-30 ng/ml.	
Background References	<ol style="list-style-type: none"> 1. Strachan, L. et al. (2001) <i>J Biol Chem</i> 276, 18265-71. 2. Kochupurakkal, B.S. et al. (2005) <i>J Biol Chem</i> 280, 8503-12. 	

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