Recombinant Human IGF2

Cat No:HR2R1521

For research use only

Overview

Quantity	10 ?g
Gene Symbol	IGF2
Gene ID	3481
Accession	P01344
Alternative Name	Insulin-like growth factor II, multiplication stimulating activity, MSA, Somatomedin-A, T3M-11-derived growth factor, PP1446
Species	Human
Source	E. coli
Description	Insulin-like growth factor 2 (IGF2) is one of the mitogenic, polypeptide growth factors that belongs to the insulin family, due to its structural and functional similarity to insulin. IGF2 is mainly produced in the liver and several other tissues at certain times. IGF2 expression can be found in many tissues usually with autocrine, paracrine and endocrine functions. IGF2 mainly acts as a growth promoting hormone during gestation, and does so by binding to the tyrosine kinase type I receptor (IGF1R) as well as the IGF2 receptor cation-independent mannose 6-phosphate receptor. Mature IGF2 is highly conserved between human, bovine, and porcine species. Recombinant Human IGF2 is a single, non-glycosylated, polypeptide chain of 7.8 kDa.
Functions	The ED50 as determined by dose dependent proliferation of MCF7 cells was <1ng/ml
Formulation	Lyophilized from a 0.2 ?m filtered solution in Tris and NaCl
Solubility	Reconstitute in sterile PBS at 100 ?g/mL
Appearance	Lyophilized Powder
Molecular Weight	7.8
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.