

IGF-I/Somatamedin C/IGF-IA, Human, Recombinant

Cat. No. : GPCK016

产品信息

物种	Human
表达宿主	E.coli
序列信息	MGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRAPQTGIVDECCFRSCDLRRLEMYC APLKPAKSA with polyhistidine tag at the C-terminus.
检索号	P05019.1
标签	His-tag at the C-terminus
分子量	8.59 kDa
有效期	12 months
生物活性	Measure by its ability to induce MCF-7 cells proliferation. The ED50 for this effect is 0.9-3.1 ng/mL. The specific activity of recombinant human IGF-I is approximately $> 1.2 \times 10^3$ IU/mg.

产品特性

内毒素 (EU/μg)	< 0.1
保存	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
运输	Ambient temperature or ice pack.
制剂	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
复溶	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

背景介绍

Insulin-like growth factor 1 (IGF-1), also called somatomedin C, is a protein that in humans is encoded by the IGF1 gene. IGF-1 is a hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. A synthetic analog of IGF-1, mecasermin, is used for the treatment of growth failure.

