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

Cat. No. : PCK018

General Information

Synonyms	Somatamedin C;IGF-IA
Species	Mouse
Expression host	E.coli
Sequence	MGPETLCGAELVDALQFVCGPRGFYFNKPTGYGSSIRRAPQTGIVDECCFRSCDLRRLEMYCA PLKPTKAA with polyhistidine tag at the C-terminus.
Accession	P05017.2
Tag	His-tag at the C-terminus
Mol mass	8.61 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce MCF-7 cells proliferation. The ED50 for this effect is < 2 ng/mL. The specific activity of recombinant mouse IGF-I is > 5 × 10^5 IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	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.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	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.

Background

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.