GFM86 Recombinant Mouse IGF-2

Description

Insulin-like Growth Factor 2 (IGF-2) is an important fetal growth hormone made by theca cells during gestation. IGF-2 engages the IGF-1 receptor (IGF1R) to mediate embryonic growth. IGF-2 also binds the sink IGF-2 receptor (IGF2R) leading to IGF-2 degradation.

Length	67 aa
Molecular Weight	7.4 kDa
Source	E. coli
Accession Number	P09535
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names	Insulin-like Growth Factor 2, somatamedin A, IGF-II
Biological Activity	Mouse IGF-2 is fully biologically active when compared to standard. The activity is determined by the ability to induce FDC-P1 cells proliferation and it is typically less than 50 ng/ml. This corresponds to an expected specific activity higher than 2.0×10^4 units/mg.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	AYGPGETLCG GELVDTLQFV CSDRGFYFSR PSSRANRRSR GIVEECCFRS CDLALLETYC ATPAKSE

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. Do not vortex. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.