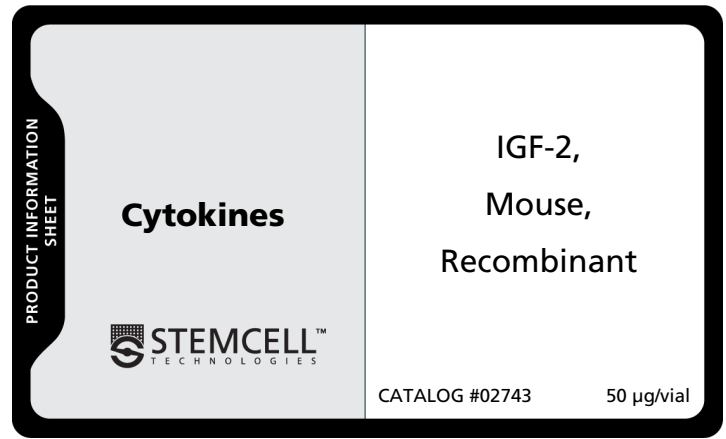


PRODUCT DESCRIPTION

Insulin-like growth factor II (IGF-2) and IGF-I are family members of insulin-like growth factors that are structurally homologous to proinsulin, and share approximately 70% sequence identity. IGF-2 is expressed in many tissues and autocrine, paracrine and endocrine functions have been reported. Mature IGF-2 is highly conserved and has cross-species reactivity. Two specific cell surface receptors, type I IGF and type II IGF receptors, that bind IGF-1 and IGF-2 have been identified. Recombinant mouse IGF-2 contains 67 amino acids and has a predicted molecular mass of 7.4 kDa.



SOURCE

A DNA sequence encoding the mature IGF-2 protein was expressed in *E. coli*.

PURITY

Greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1EU/µg of IGF-2 as assessed by the Limulus Amoebocyte Lysate (LAL) method.

ACTIVITY

The ED₅₀ of IGF-2, as measured by a serum-free cell proliferation assay using the human cell line MCF-7, is typically 2 - 10 ng/mL.

FORMULATION

Lyophilized from a 0.2 µm filtered solution in Acetonitrile plus TFA.

RECONSTITUTION

Reconstitute to a concentration of 100 µg/mL with sterile phosphate buffered saline (PBS).

STABILITY AND STORAGE

Product stable at -20°C for 6 months from date of receipt.

Once reconstituted, product can be aliquoted. Reconstituted product is stable at 2 - 8°C for one month or at -20°C for 3 months. Avoid additional freeze-thaw cycles.