Igf1
Recombinant Mouse Insulin-like Growth Factor I

Catalog No.	CRM614A	**Quantity:**	10 µg
	CRM614B		50 µg
	CRM614C		1.0 mg

Alternate Names: Insulin-like growth factor I, IGF-I

Description: IGF-I is a secreted protein which belongs to the insulin family comprised of insulin, relaxin, insulin-like growth factors I and II (IGF-I and IGF-II) and possibly the beta-subunit of 7S nerve growth factor, represents a group of structurally related polypeptides whose biological functions have diverged. IGF constitute a class of polypeptides that have a key role in pre-adolescent mammalian growth. IGF-I expression is regulated by GH and mediates postnatal growth, while IGF-II appears to be induced by placental lactogen during prenatal development. Defects in IGF-I cause insulin-like growth factor I deficiency which is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness and mental retardation.

UniProt ID: Q8CAR0

Accession Number: NP_001104744.1

Protein Construction: A DNA sequence encoding the mouse IGF1 (Gly49-Ala118) was expressed.

Source: Yeast

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rmIGF-I consists of 70 amino acids with a predicted molecular mass of 7.7 kDa.

Purity: > 95 % as determined by SDS-PAGE.

Biological Activity: Testing in progress

Predicted N-terminal: Gly 49

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

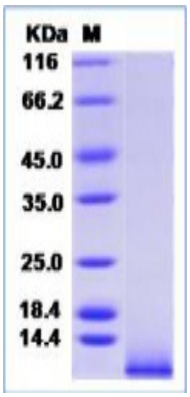
Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com

SDS-PAGE



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences ®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com