

Recombinant Human IGF-II (hFc)

Information

Gene ID	3481
Accession #	P10344
Alternate Names	Human IGF-II; IGF-II; IGFII; IGFII; IGF2; IGF-2; IGF 2; h-IGF-II; rh-IGF-II; recombinant human IGF-II; recombinant IGF-II; IGF
Source	HEK293
Protein sequence	AYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVECCFRSCDLALLETYCATPAKSE
Tag	N-hlgG1 Fc
M.Wt	The protein has a calculated MW of 35-38 kDa.
Appearance	Solution protein
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 36 months from date of receipt, -20 to -70°C as supplied
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The EC50 for this effect is 1 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

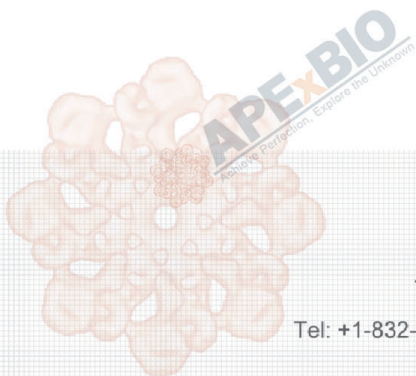
Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

Description

Insulin-like Growth Factor-II (IGF-II) is an important growth factor belonging to the insulin-like growth factor family. IGF-II plays a crucial role in physiological processes such as cell proliferation, differentiation, metabolic regulation, embryonic development, and tissue repair. Recent studies have revealed that IGF-II holds significant research value and application potential in fields such as tumor progression, metabolic diseases, and regenerative medicine.

This product is a recombinant fusion protein consisting of human IGF-II protein fused with the human IgG1 Fc fragment. The fusion with the Fc fragment enhances protein stability, prolongs its half-life, and improves bioavailability in vivo, facilitating relevant research and application development by researchers.



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