

Insulin-Like Growth Factor-2 Human Recombinant

Item Number	rAP-2322
Synonyms	Somatomedin-A, IGF2, INSIGF, pp9974, C11orf43, FLJ22066, FLJ44734.
Description	Insulin-Like Growth Factor-II Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton. IGF-II is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P01344
Amino Acid Sequence	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGFII should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The protein was lyophilized with no additives. Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized IGF2 in sterile 18MΩ-cm H2O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, calculated by the dose-dependent induction of MCF-7 cell proliferation was found to be 0.85ng/ml corresponding to a Specific Activity of 1,176,470IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**