

Epidermal Growth Factor Rat Recombinant

Item Number	rAP-2177
Synonyms	Urogastrone, URG, EGF.
Description	Epidermal Growth Factor Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6151 Dalton. The Rat EGF is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P07522
Amino Acid Sequence	NSNTGCPPSY DGYCLNGGVC MYVESVDRYV CNCVIGYIGE RCQHRDLRWW KLR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Rat EGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Rat EGF 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	Rat EGF was lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in PBS, pH 7.4. Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Rat EGF in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 0.1ng/ml, corresponding to a specific activity of > 10,000,000 units/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**