



Product Data Sheet

Recombinant Rat EGF

Catalog Number: 300-05

Product Description

Alternate Names: Urogastrone, URG

Accession Number: P07522

Description: Epidermal growth factor (EGF) is a growth factor that stimulates the proliferation, differentiation, and survival of epithelial and epidermal cells. EGF contains three intramolecular disulfide bonds and binds in high affinity to the epidermal growth factor receptor (EGFR).

Source: Genetically modified *E.coli*.

Predicted MW: Monomer, 6.3 kDa (with 54 amino acids)

AA Sequence: MNSNTGCPPS YDGYCLNGGV CMYVESVDYR VCNCVIGYIG ERCQHRDLRW WKLR

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

Product Specifications*

*Lot-specific values for the following specifications are supplied with each production lot on its corresponding COA.

Specification	Method of Determination	Acceptance Criteria
Purity	Reducing and Non-Reducing SDS-PAGE	≥ 95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/μg
Biological Activity	3T3 proliferation	ED50 ≤ 1 ng/mL (≥ 1.0 x 10 ⁶ units/mg) (typical ED50 is < 100 pg/mL)

Product Preparation and Storage

Country of Origin: USA

Shipping: Room temperature

Storage Prior to Reconstitution: -20°C

Product Reconstitution: Sterile water at 0.1 mg/mL

Instructions: Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

Expiration Date:

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!