

Product Description

Alternate Names: Urogastrone, URG **Accession/Uniprot 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 (54 amino acids)

AA Sequence: MNSNTGCPPS YDGYCLNGGV CMYVESVDRY VCNCVIGYIG ERCQHRDLRW WKLR

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

Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	≥95%	>95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	0.415 EUs/ug
Biological Activity	BALB/c 3T3 proliferation	ED50 ≤1 ng/mL (≥1.0 x 10 ⁶ units/mg)	ED50 = 0.06 ng/mL (1.7 x 10 ⁷ units/mg)

Product Preparation and Storage

Country of Origin: USA **Shipping:** Room temperature **Storage Prior to Reconstitution:** -20°C

Reconstitution: Sterile water at 0.1 mg/mL **Date of Recon.:** _____ **Initials:** _____

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: _____ **Date Received:** _____

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!

XOlivia Schneider, PhD 6-23-17

Quality Assurance