Product Data Sheet

Recombinant Human EGF
Catalog Number: 100-26

Product Description
Alternate Names: Urogastrone, URG
Accession Number: P01133
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). EGF is overexpressed in multiple tumor cell lines and promotes resistance to chemotherapy and radiation treatments.
Source: Genetically modified E.coli.
Predicted MW: Monomer, 6.2 kDa (with 53 amino acids)
AA Sequence: NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVGYIGE RCQYRDLKWW ELR
Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Method of Determination</th>
<th>Acceptance Criteria</th>
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<tbody>
<tr>
<td>Purity</td>
<td>Reducing and Non-Reducing SDS-PAGE</td>
<td>≥ 95%</td>
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<tr>
<td>Endotoxin</td>
<td>Kinetic LAL (50% confidence)</td>
<td>≤ 1 EU/µg</td>
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<tr>
<td>Biological Activity</td>
<td>3T3 cell proliferation</td>
<td>ED50 ≤ 100 pg/mL (≥ 1.0 x 10^7 units/mg) (typical ED50 is 10-50 pg/mL)</td>
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</table>

International Units conversion is 1.3 x 10^3 IU/µg (NIBSC code: 91/530)

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!