PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant EGF, Rat (CHO-expressed)

Catalog Number: BK0196-10μg Source: CHO Quantity: 10μg

Description:

Epidermal Growth Factor, a low-molecular-weight polypeptide, is the founding member of the EGF-family of proteins. It can be found in platelets, macrophages, urine, saliva, etc. EGF acts by binding with high affinity to the Epidermal Growth Factor Receptor (EGFR) and stimulating downstream protein tyrosine kinase activity. This signal transduction cascade results in increased intracellular calcium levels and increased rates of glycolysis and protein synthesis. EGF stimulates the growth of many epidermal and epithelial tissues. Pharmaceutical drμgs designed to inhibit EGFR have been used to treat certain types of cancer.

Molecular Weight:

~6 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 0.1 ng/ml, measured in a cell proliferation assay using 3T3 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MNSNTGCPPSYDGYCLNGGVCMYVESVDRYV-SYDGYCLNGGVCMYVESVDRYV-CNCVIGYIGERCQHRDLRWWKLR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant Rat Epidermal Growth Factor remains stable up to 6 months at -80℃ from date of receipt. Upon reconstitution, Rat Epidermal Growth Factor should be stable up to 1 week at 4℃ or up to 2 months at -20℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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