

MATERIAL DATA SHEET

Recombinant Human Epidermal Growth Factor (rhEGF)

Cat. # UBG-001

Product specification: 1mg/vial.

General Information

Human epidermal growth factor (EGF) exerts actions on a wide variety of biological processes, and plays an important role in the regulation of cell growth, proliferation, and differentiation mediated by its high-affinity receptor EGFR on the cell surface. It induces differentiation of specific cells, promotes angiogenesis, and inhibits gastric acid secretion in vivo, while serves as a potent mitogenic actor for a variety of cultured cells of both ectodermal and mesodermal origin.

Expression Host: pichia pastoris

Predicted N terminal: Met 1

Molecular Mass: The recombinant human EGF has a calculated molecular mass of 5635Da

Formulation: Lyophilized from sterile PBS, pH 7.2 and 5 % mannitol are added as protectants before lyophilization.

Quality Control

Purity: >95% as determined by SDS-PAGE and HPLC.

Bio-activity: Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblasts. The bio-activity is not less than 1×10^6 IU/mg.

Endotoxin: < 1.0 EU per mg protein as determined by the LAL method.

Store at: 2-8 °C for two years, avoid repeated freeze and thaw.