

Overview

Synonyms	Epidermal Growth Factor, Urogastrone, URG
Description	<p>Epidermal Growth Factor (EGF) was originally discovered in crude preparations of nerve growth factor prepared from mouse submaxillary glands as an activity that induced early eyelid opening, incisor eruption, hair growth inhibition, and stunting of growth when injected into newborn mice. EGF is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. This receptor also binds with TGF-alpha and VGF (vaccinia virus growth factor).</p> <p>Recombinant mouse Epidermal Growth Factor (rmEGF) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 54 amino acids. A fully biologically active molecule, rmEGF is obtained by proprietary chromatographic techniques with a molecular mass of 6.2kDa analyzed by reducing SDS-PAGE.</p>
Species	Mouse
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.1ng/ml, measured by a cell proliferation assay using BALB/c 3T3 cells, corresponding to a specific activity of > 1.0× 10 ⁷ units/mg.
Sequence	MNSYPGCPSS YDGYCLNGGV CMHIESLDSY TCNCVIGYSG DRCQTRDLRW WELR

Properties

Measured Molecular Weight	6.2 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analysis.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant mouse Epidermal Growth Factor (rmEGF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmEGF should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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