

Product Datasheet

RecombinantEGF,Mouse (orb1494893)

Description	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).Recombinant mouse Epidermal Growth Factor (rmEGF) produced in E.coli is a single non-glycosylated polypeptide chain containing 54 amino acids. A fully biologically active molecule, rmEGF is obtained by proprietary chromatographic techniques at GenScript with a molecular mass of 6.2kDa analyzed by reducing SDS-PAGE.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant mouse Epidermal Growth Factor (rmEGF) remains stable up to 6 months at -80°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
Application notes	Reconstituted in ddH2O at 100 μg/ml.
Protein Sequence	MNSYPGCPS SYDGYCLNGG VCMHIESLDS YTCNCVIGYS GDRCQTRDLR WWELR
Purity	> 95% by SDS-PAGE and HPLC analysis.
Source	Escherichia coli.
MW	6.2 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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