Product Data Sheet

Product Name:	EGF Mouse, His Active
Cat. No.:	GP20176
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AI790464; Pro-epidermal growth factor; URG.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNSYPGC PSSYDGYCLN GGVCMHIESL DSYTCNCVIG YSGDRCQTRD LRWWELR.		
Formulation	EGF protein solution (0.25mg/ml) contains 10% glycerol, 20mM Tris-HCl (pH 8.0), 0.1M NaCl & 2mM DTT.		

Introduction

Pro-Epidermal Growth Factor Isoform 1 or EGF, is a globular peptide (77aa residues) which includes three intra molecular disulfide bonds. This protein acts as a growth factor that mediates the growth and proliferation of different epithelial & epidermal cells. Among other processes that EGF is part of are inhibition of gastric secretion and wound healing. EGF is a ligand for class I tyrosine kinase receptor (c-erbB).

Biological Activity

Measured in a cell proliferation assay using mouse Balb/3T3 cell. The ED50 for this effect less or equal to 1ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

EGF Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 77 amino acids (977-1029 a.a) and having a molecular mass of

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8.6kDa.EGF is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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