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32-12032: Human Epidermal Growth Factor

Gene :	EGF
Gene ID :	1950
Uniprot ID :	P01133
Alternative Name :	Urogastrone

Description

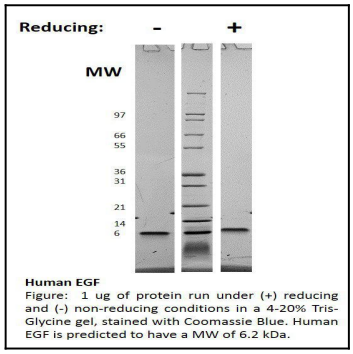
Source: Genetically modified E.coli.
Predicted MW: Monomer, 6.2 kDa (53 aa)
Epidermal growth factor (EGF) is a growth factor that stimulates the proliferation, differentiation, and survival of epithelial and epidermal cells. EGF contains three intramolecular disulfide bonds and binds in high affinity to the epidermal growth factor receptor (EGFR). EGF is overexpressed in multiple tumor cell lines and promotes resistance to chemotherapy and radiation treatments.

Product Info

Amount :	500 µg / 1 mg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	NSDSECPLSHÂ DGYCLHDGVCÂ MYIEALDKYAÂ CNCVVGYIGEÂ RCQYRDLKWWÂ ELR

Application Note

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Biological Activity was determined by 3T3 cell proliferationat <=100 pg/mL; >= 1.0 x 10^7 units/mg (typical ED50 is 10-50 pg/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



Human EGF
Figure: 1 ug of protein run under (+) reducing and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human EGF is predicted to have a MW of 6.2 kDa.

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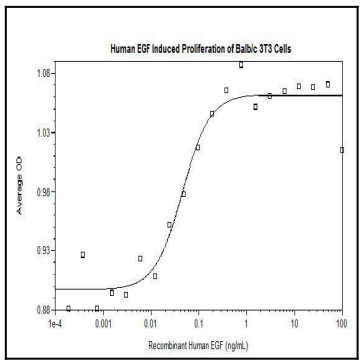

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