Recombinant Human EGF

Catalog No.: RP0015

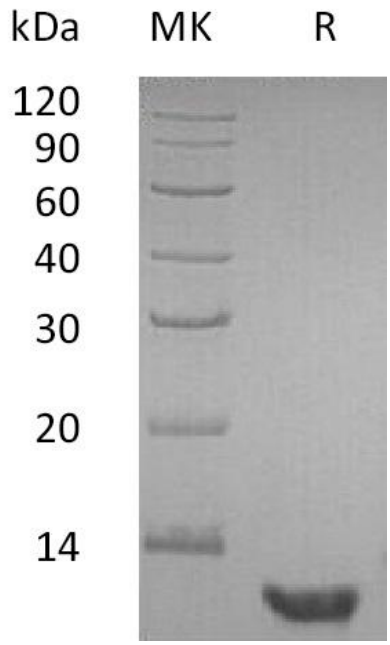
Basic Information

Information	
Source	*E.coli*
Description	Recombinant Human Epidermal Growth Factor is produced by our E.coli expression system and the target gene encoding Asn971-Arg1023 is expressed.
Accession	P01133
Known As	Pro-Epidermal Growth Factor; EGF; Epidermal Growth Factor; Urogastrone
Predicted Mol Mass	6.2 KDa
Apparent Mol Mass	11 KDa, reducing conditions

Properties	
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 200mM NaCl, pH 8.0.
Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Endotoxin	< 0.01 EU/μg as determined by LAL test.
Reconstitution	Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

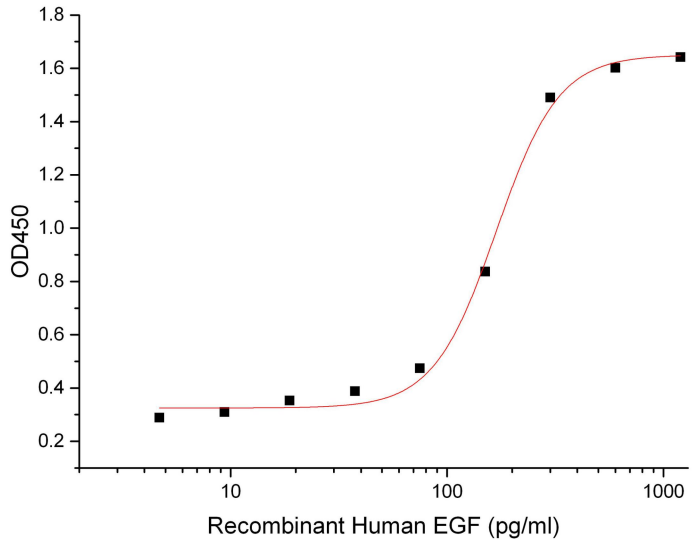
Experimental Data

Purity-SDS-PAGE



Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Bioactivity-Cell Based Assay



Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 60-450 pg/ml (QC verified).

Background

Epidermal growth factor (EGF) is a small 53 amino acid residue long protein that contains three disulfide bridges. It is a small mitogenic protein that is thought to be involved in mechanisms such as normal cell growth, oncogenesis, and wound healing. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. This protein shows both strong sequential and functional homology with human type-alpha transforming growth factor (hTGF alpha), which is a competitor for EGF receptor sites.