Human EGF/Epidermal Growth Factor (Fc Tag) recombinant protein

Catalog Number: 503608

General Information

Gene Name Synonym

Epidermal growth factor; Urogastrone

Protein Construction

A DNA sequence encoding the mature soluble form of human EGF (NP_001954.2) (Asn 971-Arg 1023) was fused with the Fc region of human IgG1 at the N-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblast cells. The ED_{50} for this effect is typically 0.1-0.6 ng/mL.

Purity

> 90 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Glu 20

Molecular Mass

The recombinant human Fc/EGF chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 290 amino acids and has a calculated molecular mass of 33 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhFc/EGF monomer is approximately 37 kDa due to the glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

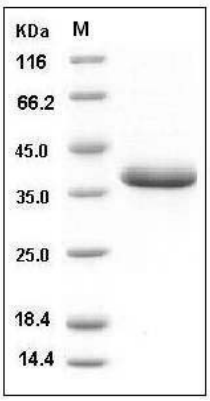
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human EGF / Epidermal Growth Factor Protein (Fc Tag) SDS-PAGE