Human EREG Protein, Fc Tag

Catalog # ERG-H5264

Synonym

EPR, ER, Ep

Source

Human EREG Protein, Fc Tag(ERG-H5264) is expressed from human 293 cells (HEK293). It contains AA Val 63 - Leu 108 (Accession # O14944-1).
Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	EREG(Val 63 - Leu 108) O14944-1

This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 31.7 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

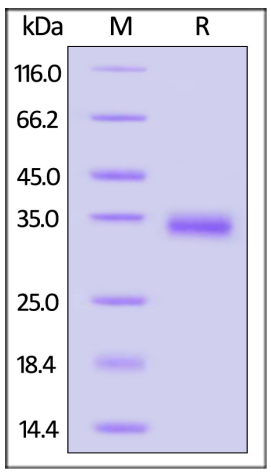
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human EREG Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

EREG is a ligand of the epidermal growth factor receptor (EGFR) and the structurally related erb-b2 receptor tyrosine kinase 4 (ERBB4), which stimulates tyrosine phosphorylation of EGFR and ERBB4. EREG may be involved in a wide range of biological processes including inflammation, wound healing, oocyte maturation, and cell proliferation. Additionally, EREG may promote the progression of cancers of various human tissue.