For Research Use Only

Recombinant Mouse Ereg protein (rFc Tag) (HPLC verified)

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Catalog Number: Eg2863

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Mouse Ereg protein Val56-Leu101 (Accession# Q61521) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
13874

Accession:
Q61521

Predicted Molecular Mass:
31.4 kDa

SDS-PAGE:
33-36 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Ereg, or epiregulin, a member of the EGF family, binds to the epidermal growth factor receptor (EGFR) and ErbB4, and it stimulates EGFR-related downstream pathways. Previous studies have shown that exposure to various chemical carcinogens induces the EREG expression that is relevant to lung tumorigenesis. The exposure of human bronchial epithelial cells to cigarette smoke extract upregulates EREG, which in turn promotes cell proliferation and protects against cigarette smoke-induced cytotoxicity.

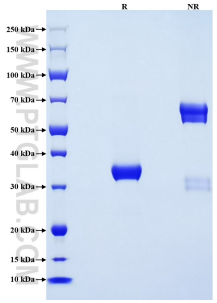
References

1. Sunaga N. et al. (2024). Cancers (Basel). 16(4):710.
2. Xu X. et al. (2017). Carcinogenesis. 38(6):604-614.
3. Xiong Y. et al. (2021). JTO Clin Res Rep. 2(7):100181.

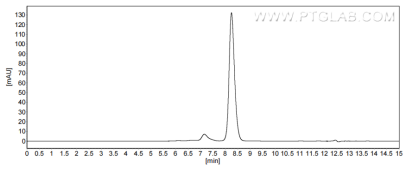
Synonyms

Epiregulin, EPR, Proepiregulin

Selected Validation Data



Purity of Recombinant Mouse Ereg was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse Ereg was greater than 90% as determined by SEC-HPLC.