For Research Use Only

Recombinant Human TF protein (Myc & 6*His)

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Catalog Number: Eg0114

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
Myc Tag, His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human TF protein Val20-Pro698 (Accession# BC059367) with a Myc tag and a His tag at the C-terminus.

GeneID:
7018

Accession:
BC059367

Predicted Molecular Mass:
80.8 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile 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

Serotransferrin(TF) is a 77 kDa secreted protein which is also named as transferrin, siderophilin, beta-1 metal-binding globulin and belongs to a family of homologous iron-binding glycoproteins that encompasses lactoferrin (found both intracellular and in secretions, including milk), melanotrasferrin (present on melanoma cells) and ovotransferrin (present in egg white). TF is a multi-function protein with a primary role in transporting iron in a safe, redox-inactive state from absorption to utilization or storage sites around the body. The association of Tf with the immune system derives from its ability to restrict serum free-iron levels, creating low-iron environments where the infection capacity of pathogenic microorganisms is limited. TF is expressed predominantly in the liver and secreted in plasma, but lower amounts can be synthesized in other tissues such as the brain and the testis.

References

1. Weaver, Michael, and Douglas W Laske. Journal of neuro-oncology vol. 65,1 (2003): 3-13.
2. Szőke, Dominika, and Mauro Panteghini. Clinica chimica acta; international journal of clinical chemistry vol. 413,
3. Irie, S, and M Tavassoli. The American journal of the medical sciences vol. 293,2 (1987): 103-11.
4. Dufès, Christine et al. Therapeutic delivery vol. 4,5 (2013): 629-40.

Synonyms

Selected Validation Data