

Human Transferrin/TF (His Tag) recombinant protein



Catalog Number: 500681

General Information

Protein Construction

A DNA sequence encoding the human transferrin (NP_001054.1) (Met 1-Pro 698) was fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human CD71 at 10 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) can bind human Transferrin. The EC_{50} of human Transferrin is 5.6 ng/mL .
2. Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. Karey, K.P. et al. (1988) Cancer Research 48:4083. The ED_{50} for this effect is typically 0.01-0.04 $\mu\text{g/mL}$.

Purity

> 95 % 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°C

Predicted N terminal

Val 20

Molecular Mass

The secreted recombinant human transferrin comprises 690 amino acids with a predicted molecular mass of 76.6 kDa. It migrates as an approximately 74 kDa band in SDS-PAGE under reducing conditions due to 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

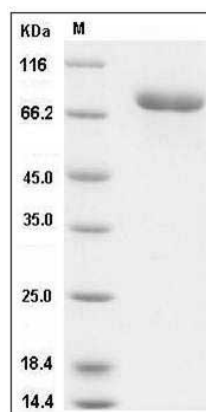
Storage

Store it under sterile conditions at -20°C to -80°C . 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 Transferrin / TF Protein (His Tag) SDS-PAGE