# Sus scrofa (Pig) Transferrin/TF (His Tag) recombinant protein

Catalog Number: 500508



#### **General Information**

# **Gene Name Synonym**

Transferrin

#### **Protein Construction**

A DNA sequence encoding the pig (Sus scrofa) transferrin (NP\_001231582.1) (Met 1-Thr 715) was fused with the a polyhistidine tag at the C-terminus.

# **Organism**

Sus scrofa (Pig)

# **Expression Host**

**Human Cells** 

# **QC Testing**

# **Activity**

- 1. Measured by its ability to bind human His-TFRC (cat: 504589) functional ELISA.
- 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  $\mu$ g/mL.

#### **Purity**

> 90 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  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**

Gln 22

#### **Molecular Mass**

The secreted recombinant Sus scrofa (Pig) transferrin comprises 705 amino acids and has a predicted molecular mass of 78.3 kDa. It migrates as an approximately 72 kDa band in SDS-PAGE under reducing conditions.

## **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**

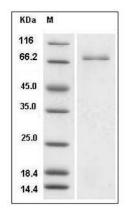
# **Storage**

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**



Sus scrofa (Pig) Transferrin / TF Protein (His Tag) SDS-PAGE