

Cynomolgus / Rhesus Transferrin Receptor / TFRC / CD71 Protein (His Tag)

Catalog Number: 90253-C07H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

TFRC

Protein Construction:

A DNA sequence encoding the cynomolgus TFRC (XP_005545315.1) (Cys89-Phe760) was expressed with a polyhistidine tag at the N-terminus. Cynomolgus and Rhesus TFRC sequences are identical.

Source: Cynomolgus

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to neutralize transferrin-mediated proliferation of MCF-7 cells. The ED₅₀ for this effect is typically 0.2-2µg/mL.

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: His

Molecular Mass:

The recombinant cynomolgus TFRC comprises 692 amino acids and has a calculated molecular mass of 77.6 KDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

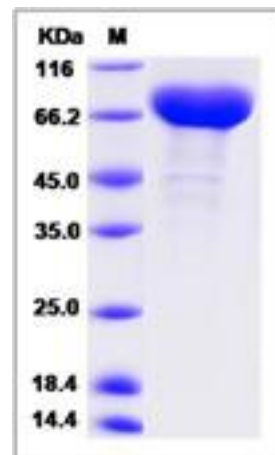
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Transferrin receptor protein 1, also known as transferrin receptor, Trfr, p90, CD71 and TFRC, is a single-pass type II membrane protein which belongs to the peptidase M28 family and M28B subfamily. TFRC / CD71 is a membrane-bound protein expressed in larger amounts in proliferating. The specific expression of TFRC can represent a diagnostic tool or a therapeutic target in solid tumours expressing this antigen. Transferrin receptor is necessary for development of erythrocytes and the nervous system. TFRC / CD71 is regulated by cellular iron levels through binding of the iron regulatory proteins, IRP1 and IRP2, to iron-responsive elements in the 3'-UTR. Up-regulated upon mitogenic stimulation. TFRC / CD71 represents a marker of malignant transformation in the pancreas that could be applied as potential diagnostic and therapeutic target.

References

1. Douabin-Gicquel V., et al., 2001, Hum. Genet. 109:393-401. 2. Ryschich, E. et al., 2004, Eur J Cancer. 40 (9):1418-22. 3. Tosoni D., et al., 2005, Cell 123:875-888.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax: +86-10-5862-8288 • Tel: +86-400-890-9989 • <http://www.sinobiological.com>