

Native Rat Transferrin

Cat. No. Tf-264R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Rat
Source	rat plasma
Description	Transferrin is a monomeric glycoprotein found in plasma at an average concentration of 250 mg/100ml. The specific iron-binding protein in plasma, it has a role in the transportation and distribution of iron among the body organs, in iron metabolism and in prevention of iron loss via the kidney. Stored in bone marrow as TF-bound iron, it also possesses bacteriostatic and fungistatic activity. Clinically, decreases in transferrin are observed in congenital disorders, newborns, inflammatory diseases, hypo-proteinemias and nephritic syndrome; increases are found in pregnancy, iron-deficiency anemias and inoculation hepatitis. Transferrin is required by all types of cells in cultures for maximal growth. It is, therefore, an important factor used in defined culture media.
Form	Lyophilized
Molecular Mass	MW: 80,000 by SDS PAGE
Purity	>= 98% by SDS-PAGE
Usage	For research or further manufacturing use only.

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Stability	1 year
Storage	-20°C
Storage Buffer	20 mM Na phosphate, pH 7.4, 150 mM NaCl

GENE INFORMATION

Gene Name	Tf transferrin [<i>Rattus norvegicus</i>]
Official Symbol	Tf
Synonyms	TF; transferrin; serotransferrin; siderophilin; beta-1 metal-binding globulin; liver regeneration-related protein LRRG03; Tfn; Trf; MGC93500;
Gene ID	24825
mRNA Refseq	NM_001013110
Protein Refseq	NP_001013128
Pathway	Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem;
Function	ferric iron binding; ferric iron transmembrane transporter activity; metal ion binding;

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