

## Native Rat Transferrin

Cat. No. TF-93R    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Source         | Rat Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Description    | <p>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.</p> |
| Form           | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Molecular Mass | 80.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity         | Purity by SDS-PAGE: $\geq 98\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Usage          | For Research Use Only! Not For Use in Humans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| <b>Notes</b>          | Centrifuge the vial prior to opening                         |
| <b>Storage</b>        | -20°C                                                        |
| <b>Storage Buffer</b> | Lyophilized from 20 mM Na phosphate, pH 7.4 and 150 mM NaCl. |
| <b>Shipping</b>       | Gel pack                                                     |

## GENE INFORMATION

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

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