

## Recombinant Human Transferrin (TF)

### Product Description

Recombinant Human Transferrin is a universal iron carrier capable of delivering iron to cells. Each 80kDa transferrin molecule can carry two iron ions in the ferric form. Recombinant Human Transferrin is manufactured animal free in a GMP facility and can be utilized to increase the quantity and quality of a wide range of cell types. Transferrin is also associated with the innate immune system, since its binding of iron can create decreased levels of free iron and impede bacterial survival. The activity is equivalent to human serum holo transferrin.

### Typical Specifications

<b>Species</b>	Human
<b>Expression</b>	Oryza Sativa
<b>Purity</b>	≥95%
<b>Endotoxin</b>	<1.0 EU/mg
<b>Molecular Mass</b>	80.0 kDa
<b>Formulation</b>	Sodium Phosphate and Sodium Chloride, pH 7.0
<b>Country of Origin</b>	USA

### Purity Confirmation

This was determined by SDS-PAGE gel.

### Activity Assay

Biological activity verified by comparison against native human transferrin in the antibody production of hybridoma cells in serum-free supplemented media.

### AA Sequence

VPDKTVRWC	AVSEHEATK	CQSFDRHMK
SVIPSDGPS	VACVKKASY	LDCIRAIAA
NEADAVTLD	AGLVYDAYL	APNNLKPVV
AEFYGSKED	PQTFYYAVA	VVKKDSGFQ
MNQLRGKKS	CHTGLGRSA	GWNIPIGLL
YCDLPEPRK	PLEKAVANF	FSGSCAPCA
DGTDFPQLC	QLCPGCGCS	TLNQYFGYS
GAFKCLKDG	AGDVAFVKH	STIFENLAN
KADRQYEL	LCLDNTRKP	VDEYKDCHL
AQVPSHTVV	ARSMGGKED	LIWELLNQA
QEHFGKDKS	KEFQLFSSP	HGKDLLFKD
SAHGFLKVP	PRMDAKMYL	GYEYVTAIR
NLREGTCPE	APTDECKPV	KWCALSHHE
RLKCDEWSV	NSVGKIECV	SAETTEDCI
AKIMNGEAD	AMSLDGGFV	YIAGKGLV
PVLAENYNK	SDNCEDTPE	AGYFAIAVV
KKSASDLTW	DNLKGGKSC	HTAVGRTAG
WNIPMGLLY	NKINHCRFD	EFFSEGCAP
GSKKDSSLC	KLCMGSGLN	LCEPNNKEG
YYGYTGAFR	CLVEKGDVA	FVKHQTVPPQ
NTGGKNPDP	WAKNLNEKD	YELLCLDGT
RKPVEEYAN	CHLARAPNH	AVVTRKDKE
ACVHKILRQ	QQHLFGSNV	TDCSGNFCL
FRSETKDLL	FRDDTVCLA	KLHDRNTYE
KYLGEEYVK	AVGNLRKCS	TSSLLEACT
FRRP		

### Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in 1x PBS to a concentration of 5-200 mg/L depending on cell line of interest. Do not vortex.

### Storage

Store in working aliquots at -20°C to -80°C.

#### Limited Use and Restrictions

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