

## Transferrin Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P73453
<b>Synonyms:</b>	Serotransferrin; Transferrin; Beta-1 metal-binding globulin; Siderophilin; TF; TRF
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q92111 (V20-H697)
<b>Gene ID:</b>	22041
<b>Molecular Weight:</b>	approximately 85 kDa

### PROPERTIES

#### AA Sequence

V P D K T V K W C A	V S E H E N T K C I	S F R D H M K T V L	P P D G P R L A C V
K K T S Y P D C I K	A I S A S E A D A M	T L D G G W V Y D A	G L T P N N L K P V
A A E F Y G S V E H	P Q T Y Y Y A V A V	V K K G T D F Q L N	Q L E G K K S C H T
G L G R S A G W V I	P I G L L F C K L S	E P R S P L E K A V	S S F F S G S C V P
C A D P V A F P K L	C Q L C P G C G C S	S T Q P F F G Y V G	A F K C L K D G G G
D V A F V K H T T I	F E V L P E K A D R	D Q Y E L L C L D N	T R K P V D Q Y E D
C Y L A R I P S H A	V V A R K N N G K E	D L I W E I L K V A	Q E H F G K G K S K
D F Q L F S S P L G	K D L L F K D S A F	G L L R V P P R M D	Y R L Y L G H N Y V
T A I R N Q Q E G V	C P E G S I D N S P	V K W C A L S H L E	R T K C D E W S I I
S E G K I E C E S A	E T T E D C I E K I	V N G E A D A M T L	D G G H A Y I A G Q
C G L V P V M A E Y	Y E S S N C A I P S	Q Q G I F P K G Y Y	A V A V V K A S D T
S I T W N N L K G K	K S C H T G V D R T	A G W N I P M G M L	Y N R I N H C K F D
E F F S Q G C A P G	Y E K N S T L C D L	C I G P L K C A P N	N K E E Y N G Y T G
A F R C L V E K G D	V A F V K H Q T V L	D N T E G K N P A E	W A K N L K Q E D F
E L L C P D G T R K	P V K D F A S C H L	A Q A P N H V V V S	R K E K A A R V K A
V L T S Q E T L F G	G S D C T G N F C L	F K S T T K D L L F	R D D T K C F V K L
P E G T T P E K Y L	G A E Y M Q S V G N	M R K C S T S R L L	E A C T F H K H

**Biological Activity** Measured by its ability to inhibit proliferation of A549 cells. The ED<sub>50</sub> for this effect is 187.3 ng/mL, corresponding to a specific activity is 5339.028 U/mg.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4

**Endotoxin Level** <1 EU/μg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with

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carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

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**DESCRIPTION**

**Background**

Transferrin, a pivotal iron-binding transport protein, exhibits the capacity to bind two Fe(3+) ions in conjunction with an anion, typically bicarbonate. Its primary responsibility lies in facilitating the transport of iron from absorption sites and heme degradation to locations designated for storage and utilization within the body. Beyond its fundamental role in iron homeostasis, serum transferrin may additionally play a role in promoting cell proliferation. Structured as a monomer, transferrin's multifaceted functions underscore its significance in orchestrating the intricate balance of iron distribution and cellular processes essential for overall physiological well-being.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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