

Transferrin Protein, Pig (HEK293, His)

Cat. No.:	HY-P74494
Synonyms:	Serotransferrin; Transferrin; Beta-1 metal-binding globulin; Siderophilin; TF; TRF
Species:	Pig
Source:	HEK293
Accession:	B3CL06 (Q22-T715)
Gene ID:	396996
Molecular Weight:	Approximately 80 kDa

PROPERTIES

AA Sequence

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

Biological Activity Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED₅₀ for this effect is 22.35 ng/mL, corresponding to a specific activity is 4.47×10⁴ units/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 ddH₂O. 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. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with 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.

DESCRIPTION**Background**

Transferrins, as iron-binding transport proteins, exhibit the capability to bind two Fe(3+) ions, often in conjunction with the binding of an anion, typically bicarbonate. Functionally, transferrin plays a crucial role in transporting iron from sites of absorption and heme degradation to locations dedicated to storage and utilization within the body. Beyond its primary involvement in iron homeostasis, serum transferrin may play an additional role in stimulating cell proliferation. Structured as a monomer, transferrin's versatility underscores its significance in orchestrating the intricate processes of iron transport and cellular regulation, contributing to essential physiological functions within the organism.

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

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