



Recombinant Human Apo Transferrin (rhATF)

Catalog #MB9108

Description

Transferrin is the iron-transport protein of vertebrate serum and donates iron to cells through interaction with a specific membrane receptor, CD71. Transferrin appears to be indispensable for most cells growing in tissue culture. It is referred to frequently as a growth factor because, in analogy to other growth factor-receptor interactions, proliferating cells express high numbers of transferrin receptors, and the binding of transferrin to their receptors is needed for cells to initiate and maintain their DNA synthesis. Apart from its role as an iron transport protein, transferrin acts as a cytokine and has functions that may not be related to its iron-carrying capacity. The recombinant human transferrin that is completely animal-free and blood-free. Its performance is equivalent to human transferrin in cell culture and offers significant regulatory advantages due to its safety and consistency.

Specifications

Synonyms:	Apo Transferrin, ATF
AA Sequence:	SVPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPS VACVKKASYLDCIRAIAANEADAVTL DAGLVYDAYL APNNLKPVVAEFYGSKEVPQTFYYAVAVVKKDSGFQ MNQLRGKKSCHTGLGRSAGWNIPIGLLYCDLPEPRKP LEKAVANFFSGSCAPCADGTD F PQLCQLCPGCGCSTLN QYFGYSGAFKCLKNGAGDVA FVKHSTIFEN LANKADR DQYELLCLDNTRKPVDEYKDCHLAQVPSHTVVARSM GGKEDLIWELLNQAQEHFGKDKSKEFQLFSSPHGKDL LFKDSA HGFLKVPPRMDAKMYLGYEYVTAIRNLREGT CQEAPTDECKPVKWCALSHHERLKCDEWSVNSVGKIE CVSAETTEDCIAKIMNGEADAMSLDGGFVYIAGKCGL VPVLAENYNKSDNCEDTPEAGYFAVAVVKKSASDLT WDNLKGKKSCHTAVGRTAGWNIPMGLLYNKINHCRF DEFFSEGCAPGSKKDSSLCKLCMGSGNLCEPNNKEG YYGYTGAFRCLVEKGDVAFVKHQTPQNTGGKNPDP WAKNLNEKDYELLCLDGTRKPVEEYANCHLARAPNH AVVTRKDKEACVHKILRQQQHLFGSNVTDCSGNFCLF

Rev. 0

	RSETKDLLFRDDTVCLAKLHDRNTYEKYLGEELYVKAV GNLRKCSTSSLLEACTFRRP
Source:	<i>Pichia pastoris</i>
Molecular Weight:	Approximately 76 kDa.
Purity	> 95% by SDS-PAGE
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)

Formulation

Lyophilized from a solution in water.

Reconstitution

Reconstitute in distilled water or 1x PBS buffer containing 0.1% BSA to a concentration of 0.1-10.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8 °C for up to one week. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.

Usage

rhATF is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.