

Recombinant Human Transferrin (HOLO)

Information

Gene ID	7018
Accession #	P02787
Alternate Names	Holo-Human Transferrin; Transferrin
Source	Yeast
M.Wt	Approximately 75 kDa
AA Sequence	MRLAVGALLVCAVLGLCLAVPDKTVRWCAVSEHEATKCSFRDHMKSVIPSDGSPVACVKKASYLDCIRAIANA NEADAVTL DAGLVYDAYLAPNNLKPVVAEFYGSKEDPQTFYAVAVVKKDSGFQMNQLRGKKSCHTGLGRSA GWNIPIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTFPQLCQLCPGCGCSTLNQYFGYSGAFKCLKDG AGDVAFVKHSTIFENLANKADRQYELLCLDNTRKPVDEYKDCHLAQVPSHTVVARSMGGKEDLIWELLNQA QEHFGKDKSKEFQLFSSPHGKDLLFKDSAHGFLKVPVRMDAKMYLGYEYVTAIRNLREGTCPEAPTDECKPV KWCALSHHERLKCDEWSVNSVSGKIECVSAETTEDCIAKIMNGEADAMSLDGGFVYIAGKCGLVPVLAENYK SDNCEDTPEAGYFAIAVVKKSASDLTWDNLKGGKSCHTAVGRTAGWNIPMGLLYNKINHCRFDEFFSEGCAP GSKKSSSLCKLCMGSGNLNCEPNNKEGYGYTGAFRCLVEKGDVAFVKHQVTPQNTGGKNPDPWAKNLNE KDYELLCLDGTTRKPVVEEYANCHLARAPNHAVVTRKDKACVHKILRQQHFLFGSNVTDSCGNFCLFRSETKD LLFRDDTVCLAKLHNRNTYEKYLGEYVKA VGNLRKCSTSSLLEACTFRFP
Appearance	Red to reddish-brown lyophilized powder or cake
Protein Content	95.0-110.0%
Iron Content	0.10% - 0.35%
pH Value	6.0–9.0
Formulation	Sterile water
Reconstitution	Dissolve the lyophilized powder in PBS or other suitable solvent at room temperature to 0.5–2.0 mg/mL. Sterile-filter. Store at 2–8°C under aseptic conditions for up to 30 days.
Stability & Storage	2–8°C away from light for 2 years
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

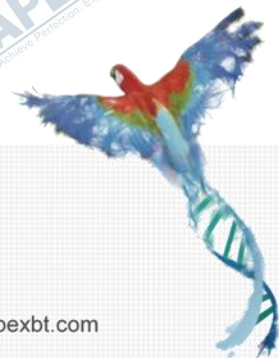
Purity	≥ 98.0% (HPLC)
HCP	≤ 100 ng/mg (ELISA)
Endotoxin	Less than 0.5 EU/mg as determined by LAL method.
Virus Detection	Negative

Description

Transferrin is the primary iron-transporting protein in plasma. Through interaction with the specific membrane receptor CD71, it safely delivers iron ions to cells, providing the essential element for cell differentiation, metabolism, and proliferation. Studies have shown that all cells require transferrin for growth in serum-free media. Iron is not only a key element for maintaining normal cellular metabolism but also a cofactor for various enzymes such as RNA polymerase and DNA synthase, and is a critical component of hemoglobin.

This product is a recombinant human transferrin (Holo-Human Transferrin) expressed and purified from *Pichia pastoris* using gene recombination technology. It contains no animal-derived components, poses no risk of blood-borne viral infection, and offers high batch-to-batch consistency. As a holotransferrin (iron-saturated form), this product not only performs iron transport functions but also serves directly as a cellular iron source, eliminating the need for exogenous iron supplementation in the culture medium. This cell culture grade product is supplied as a lyophilized powder or cake, exhibiting a red to reddish-brown appearance.

Before use, dissolve the lyophilized powder in PBS or a suitable solvent at room temperature to prepare a 0.5–2.0 mg/mL stock solution, then filter-sterilize using a 0.22 μm sterile membrane filter. The stock solution can be stored under sterile conditions at 2–8°C for 30 days.



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