

Bovine Transferrin (Saturated Iron Form, Cell Culture Grade)

Cat #: A-CSH007

Size: 10mg, 100mg

Storage: 2-8 °C (36 months)

Product Description

Product Name	Bovine Transferrin (Saturated Iron Form, Cell Culture Grade)
Cat #	A-CSH007
CAS Number	11096-37-0
Appearance	Red lyophilized powder or solid block
Protein Content	≥ 95%
Solubility	Soluble in water
pH Value	6.0-8.0

Transferrin is a plasma glycoprotein that is isolated from plasma. Bovine transferrin exists in two molecular forms with molecular weights of 74 kDa and 78 kDa, respectively. Each transferrin molecule can bind two iron ions through its C-terminal and N-terminal binding sites, resulting in three forms: apotransferrin (unbound to iron ions), holo-transferrin (bound to two iron ions), and partially saturated transferrin. Under physiological conditions, only one-third of transferrin molecules are saturated with iron. Transferrin is essential for the growth of the majority of cell lines in serum-free culture media. Studies have shown that the holo-transferrin form is the most effective in promoting cell growth.

Usage

Transferrin lyophilized powder should be stored in a refrigerated state and reconstituted before use. Generally, the transferrin lyophilized powder is dissolved in PBS or other suitable solvents at room temperature to prepare a stock solution with a concentration of 0.5-2.0 mg/ml. The solution is then filtered using a sterile membrane filter, and the

filtrate can be stored at 2-8 °C under sterile conditions for 30 days.

For hybridomas, adherent cells, and suspension cell lines, during the cell culture process, the transferrin concentration in the culture medium should be maintained at 0.5-100 µg/ml. The optimal concentration should be selected based on the specific cell line.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.