

Product Data Sheet

Product Name: TRF
Cat. No.: GC19827

Chemical Properties

Cas. No. 11096-37-0

Formula $C_{16}H_{22}N_6O_4$ M.Wt 362.38

Solubility H_2O : 100 mg/mL (Need ultrasonic) Storage Store at 2-8°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Transferrin is the main iron transfer protein in plasma, which provides iron for cell differentiation and cell metabolism. It was found that all cells can not grow without transferrin. Not only does maintaining normal cell metabolism depend on iron in bioactive form, iron is also a cofactor of some enzymes, such as RNA polymerase and DNA synthase. It is also an important part of hemoglobin.

Transferrin is a plasma glycoprotein isolated from plasma. Bovine transferrin exists in two molecular forms with molecular weights of 74kd and 78kd respectively. Each transferrin molecule can bind two molecules of iron ions through the C-terminal and N-terminal structural sites, so transferrin exists in

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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three forms: de iron (not bound to iron ions), saturated iron (bound to two molecules of iron ions) and partial saturation. Under physiological conditions, only 1 / 3 of transferrin molecules are saturated by iron.

Instructions: transferrin is necessary for most cell lines to grow in serum-free medium. Studies have shown that transferrin in saturated iron form is the most effective form to promote cell growth. For hybridoma, adherent cells and suspension cell lines, the concentration of transferrin in the culture medium should be kept at 0.5-100 during cell culture μ g/ml. For different cell lines, the most appropriate concentration needs to be selected.

Transferrin lyophilized powder needs to be stored in cold storage and dissolved before use. Generally, the transferrin lyophilized powder is dissolved into storage solution with PBS or other suitable solvent at room temperature, with the concentration of 0.5-2.0mg/ml, and then filtered with sterile filter membrane. The filtrate can be stored at 2-8 °C under sterile conditions for 30 days.

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