

Optiferrin

Guidelines for Use

Optiferrin™

Recombinant Human Transferrin
Animal-Free
cGMP



Introduction

Optiferrin is a recombinant human serum transferrin that has been produced using a non-mammalian protein expression system. Human transferrin is responsible for iron transport in animals. In cells, intracellular iron is required to maintain cell growth. Transferrin is the preferred method for iron delivery into cells where it enters through the transferrin receptor. Each 80 kDa transferrin can transport two iron molecules. In cell culture applications, iron delivery by transferrin has advantages compared to free iron or iron chelators. Free iron promotes free radical formation, which can damage cells. Iron-chelators tend to disrupt downstream processes and tend to have lower iron bioavailability, require excessive iron loading in cell culture media. Optiferrin is designed for use in cell culture media and life science research.

To learn more about recommended inclusion concentrations for your cell type please contact our Product Applications Team via ProductApplications@InVitria.com

Storage

Recommended storage at -20°C, tightly sealed, and protected from light.

Recommended Handling

Stock solutions can be prepared by dissolving gently into PBS for several minutes. Typical stock concentrations are 5-20 mg/ml in PBS, although others can be used. Avoid the formation of bubbles when dissolving. Filter through 0.2µm filter to sterilize. Avoid repeated freeze-thaw cycles of Optiferrin solution.