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IF Human

Intrinsic Factor Human Recombinant
RCP1110

Product Overview

Name	IF Human

Description

Intrinsic Factor Human Recombinant

Accession (Primary)	P27352

Synonyms

Gastric intrinsic factor, Intrinsic factor, INF, IF, GIF, IFMH, TCN3, Cobalamin/Vitamin B-12 binding transport protein.

Introduction

Intrinsic Factor is a member of the cobalamin transport protein family. It encodes a glycoprotein secreted by parietal cells of the gastric mucosa and is required for adequate absorption of vitamin B12 in the terminal ileum. Vitamin B12 is essential for erythrocyte maturation and mutations in the Intrinsic Factor may lead to congenital pernicious anemia. Upon entry into the stomach, vitamin B12 binds to one of two B12 binding proteins present in the gastric fluid. In the less acidic environment of the small intestine, these proteins dissociate from the vitamin, allowing it to bind to intrinsic factor and enter the portal circulation through a receptor in the ileal mucosa specific for the B12-intrinsic factor complex.

Source

Sf9 Insect Cells.

Physical Appearance

Sterile Filtered pink solution.

Formulation

The protein solution contains 20mM HEPES pH-8.0, 100mM NaCl and 20% Glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Precautions

IF Human is for research use only and not for use in diagnostic or therapeutic procedures.

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Target Information: (P27352)