

Intrinsic Factor/GIF Protein, Human (HEK293, His)

Cat. No.:	HY-P73859
Synonyms:	Gastric intrinsic factor; GIF; IF; Intrinsic factor; IFMH; INF; TCN3
Species:	Human
Source:	HEK293
Accession:	P27352-1 (S19-Y417)
Gene ID:	2694
Molecular Weight:	Approximately 49 kDa

PROPERTIES

AA Sequence	<pre> STQTQSSCSV PSAQEPLVNG IQVLMENSVT SSAYPNPSIL IAMNLAGAYN LKAQKLLTYQ LMSSDNDLTL IGQLGLTIMA LTSSCRDPGD KVSILQRQME NWAPSSPNAE ASAFYGPSLA ILALCQKNSE ATLP IAVRFA KTL LANS SPF NVDTGAMATL ALTCMYNKIP VGSEEGYRSL FGQVLKDIVE KISMKIKDNG IIGDIYSTGL AMQALSVTPE PSKKEWNCKK TTD MILNEIK QGKFHNPMSI AQILPSLKGK TYLDVPQVTC SPDHEVQPTL PSNPGPGPTS ASNITVIYTI NNQLRGVELL FNETINVSVK SGSVLLVBLE EAQRKNPMFK FETTMTSWGL VVSSINNIAE NVNHKTYWQF LSGVTP LNEG VADYIPFNHE HITANFTQY </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Intrinsic Factor (GIF) stands as a key facilitator in the absorption of the essential vitamin cobalamin (Cbl) in the ileum. Its pivotal role unfolds through a well-orchestrated process, where the CBLIF-cobalamin complex, upon interaction with the Cubilin (CUBN) receptor, undergoes internalization via receptor-mediated endocytosis. This intricate interplay underscores the significance of GIF in ensuring the effective absorption of cobalamin, a crucial vitamin for various physiological processes. GIF's interaction with CUBN, particularly involving CUB domains, highlights the molecular intricacies governing this essential aspect of vitamin uptake.

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

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