

Gastric intrinsic factor Recombinant Protein | GIF recombinant protein

Recombinant Human Gastric intrinsic factor

CATALOG #
AAA113968

PRODUCT SYNONYMS

Gastric intrinsic factor; Recombinant Human Gastric intrinsic factor; Intrinsic factor; IF; INF; GIF recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	19-417
Sequence	STQTQSSCSV PSAQEPLVNG IQVLMENSVT SSAYPNPSIL IAMNLAGAYN LKAQKLLTYQ LMSSDNNDLT IGQLGLTIMA LTSSCRDPGD KVSILQRQME NWAPSSPNAE ASAFYGPSLA ILALCQKNSE ATLPIAVRFA KTLANSSPF NVDTGAMATL ALTCMYNKIP VGSEEGYRSL FGQVLKDIVE KISMKIKDNG IIGDIYSTGL AMQALSVTPE PSKKEWNCKK TTDMLNEIK QGKFHNPMSI AQILP
Sequence Length	417
Product Note	Applications are user defined. Product is developed and quality control tested in house, data or additional information may be provided upon request. The researcher needs to establish and confirm the suitability of the product for their application.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for GIF recombinant protein	Promotes absorption of the essential vitamin cobalamin (Cbl) in the ileum. After interaction with CUBN, the GIF-cobalamin complex is internalized via receptor-mediated endocytosis.
Product Categories/Family for GIF recombinant protein	Transport ; Raw Materials Assay Development

References	Human gastric intrinsic factor characterization of cDNA and genomic clones and localization to human chromosome 11.Hewitt J.E., Gordon M.M., Taggart R.T., Mohandas T.K., Alpers D.H.Genomics 10:432-440(1991) A cDNA sequence of the human intrinsic factor.Hannappel M., Kehl M., Winnacker E.L. Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Human chromosome 11 DNA sequence and analysis including novel gene identification.Taylor T.D., Noguchi H., Totoki Y., Toyoda A., Kuroki Y., Dewar K., Lloyd C., Itoh T., Takeda T., Kim D.-W., She X., Barlow K.F., Bloom T., Bruford E., Chang J.L., Cuomo C.A., Eichler E., FitzGerald M.G., Jaffe D.B., LaButti K., Nicol R., Park H.-S., Seaman C., Sougnez C., Yang X., Zimmer A.R., Zody M.C., Birren B.W., Nusbaum C., Fujiyama A., Hattori M., Rogers J., Lander E.S., Sakaki Y.Nature 440:497-500(2006) Crystal structure of human intrinsic factor cobalamin complex at 2.6-A resolution.Mathews F.S., Gordon M.M., Chen Z., Rajashankar K.R., Ealick S.E., Alpers D.H., Sukumar N.Proc. Natl. Acad. Sci. U.S.A. 104:17311-17316(2007) Structural basis for receptor recognition of vitamin-B(12) -intrinsic factor complexes.Andersen C.B., Madsen M., Storm T., Moestrup S.K., Andersen G.R.Nature 464:445-448(2010) A genetic polymorphism in the coding region of the gastric intrinsic factor gene (GIF) is associated with congenital intrinsic factor deficiency.Gordon M.M., Brada N., Remacha A., Badell I., del Rio E., Baiget M., Santer R., Quadros E.V., Rothenberg S.P., Alpers D.H.Hum. Mutat. 23:85-91(2004) Hereditary juvenile cobalamin deficiency caused by mutations in the intrinsic factor gene.Tanner S.M., Li Z., Perko J.D., Oener C., Cetin M., Altay C., Yurtsever Z., David K.L., Faivre L., Ismail E.A., Graesbeck R., de la Chapelle A.Proc. Natl. Acad. Sci. U.S.A. 102:4130-4133(2005)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32189398
NCBI GeneID	2694
NCBI Accession #	NP_005133.2
NCBI GenBank Nucleotide #	NM_005142.2
UniProt Accession #	P27352; B2RAN8; B4DVZ1
Molecular Weight	59.4kD
NCBI Official Full Name	gastric intrinsic factor
NCBI Official Synonym Full Names	gastric intrinsic factor
NCBI Official Symbol	GIF
NCBI Official Synonym Symbols	IF; INF; IFMH; TCN3
NCBI Protein Information	gastric intrinsic factor
UniProt Protein Name	Gastric intrinsic factor
UniProt Gene Name	GIF
UniProt Synonym Gene Names	IFMH; IF; INF
UniProt Entry Name	IF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/gif-recombinant-protein/113968>