

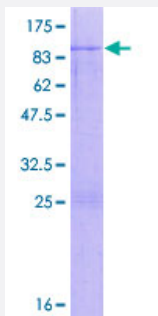
Full-Length

HNF1B (Human) Recombinant Protein (P01)

Catalog # H00006928-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HNF1B full-length ORF (NP_000449.1, 1 a.a. - 557 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MVSKLTSLQQELLSALLSSGVTKEVLVQALEELLPSNFGVKLETPLSPGSGAEPDTKPVFHTL
TNGHAKGRLSGDEGSEDGDDYDTPILKELQALNTEEAEEQRAEVDRLSEDPWRAAKMIKGY
MQQHNPQREVVDVTGLNQSHLSQHLNKGTPMKTQKRAALYTWYVRKQREILRQFNQTVQSSGN
MTDKSSQDQLLFLPEFSQQSHGPGQSDDACSEPTNKKMRRNRFKWGPASQQILYQAYDRQKN
PSKEEREALVEECNRAECLQRGVSPSKAHGLGSNLVTEVRVYNWFANRRKEEAFRQKLAMDAY
SSNQTHSLNPLLSHGSPHHQPSSSPNKLSGVRYSQQGNNEITSSSTISHHGNSAMVTSQSVLQQ
VSPASLDPGHNLLSPDGKMISVSGGGLPPVSTLTNIHSLSHHNPQQSQNLIMTPLSGVMAIAQSLN
TSQAQSVPVINSVAGSLAALQPVFQFSQQLHSPHQQLPMQQSPGSHMAQQPFMAAVTQLQNSH
MYAHKQEPPQYSHTSRFPSAMVVTDTSISTLTNMSSSKQCPLQAW

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

87.7

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HNF1B

Entrez GeneID[6928](#)**GeneBank Accession#**[NM_000458.1](#)**Protein Accession#**[NP_000449.1](#)**Gene Name**

HNF1B

Gene Alias

FJHN, HNF1beta, HNF2, HPC11, LF-B3, LFB3, MODY5, TCF2, VHNF1

Gene Description

HNF1 homeobox B

Omim ID[125853](#) [137920](#) [189907](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a member of the homeodomain-containing superfamily of transcription factors. The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene.

Other Designations

transcription factor 2|transcription factor 2, hepatic|transcription factor 2, hepatic; LF-B3; variant hepatocyte nuclear factor

Pathway

- [Maturity onset diabetes of the young](#)

Disease

- [Birth Weight](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [HIV Infections](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)

- [Tobacco Use Disorder](#)
- [Vesico-Ureteral Reflux](#)
- [Wasting Syndrome](#)