

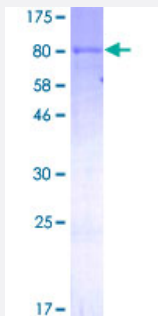
Full-Length

HNF4A (Human) Recombinant Protein (P01)

Catalog # H00003172-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HNF4A full-length ORF (NP_849180.1, 1 a.a. - 464 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRLSKTLVDMDMADYSAALDPAYTTLEFENVQVLTMGNDTSPSEGTLNAPNSLGVSALCAICG
DRATGKHYGASSCDGCKGFFRRSVRKNHMYSCRFSRQCVDKDKRNQCRYCRLKKCFRAGMK
KEAVQNERDRISTRSSYEDSSLPSINALLQAEVLSRQITSPVSGINGDIRAKKIASIADVCESMKEQ
LLVLVEWAKYIPAFCELPLDDQVALLRAHAGEHLLLGATKRSMVFKDVLLLGNDYVPRHCPELAE
MSRVSIRILDELVLPPFQELQIDDNEYAYLKAIIFFDPDAKGLSDPGKIKRLRSQVQVSLEDYINDRQY
DSRGRFGELLLLLPTLQSIWQMIEQIQFIKLFGMAKIDNLLQEMLLGGSPSDAPHAHHPLHPLHMQ
EHMGTVNVANTMPHLSNGQMSTPETPQPSPPGGSGSEPYKLLPGAVATVKPLSAIPQPTITKQ
EVI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78

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 — HNF4A

Entrez GeneID[3172](#)**GeneBank Accession#**[NM_178849.1](#)**Protein Accession#**[NP_849180.1](#)**Gene Name**

HNF4A

Gene Alias

FLJ39654, HNF4, HNF4a7, HNF4a8, HNF4a9, MODY, MODY1, NR2A1, NR2A21, TCF, TCF14

Gene Description

hepatocyte nuclear factor 4, alpha

Omim ID[125850](#) [125853](#) [600281](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq]

Other Designations

HNF4-alpha|OTTHUMP00000031060|OTTHUMP00000031062|hepatic nuclear factor 4 alpha|hepatocyte nuclear factor 4 alpha|transcription factor-14

Publication Reference

- [The transcriptional activity of hepatocyte nuclear factor 4 alpha is inhibited via phosphorylation by ERK1/2.](#)

Vető B, Bojcsuk D, Bacquet C, Kiss J, Sipéki S, Martin L, Buday L, Bálint BL, Arányi T.

PLoS One 2017 Feb; 12(2):e0172020.

Application: KA, Recombinant protein

Pathway

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

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)

- [Dyslipidemias](#)
- [Edema](#)
- [Fetal Macrosomia](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [Hyperinsulinism](#)
- [Hyperlipidemias](#)
- [Hypoglycemia](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Persistent Hyperinsulinemia Hypoglycemia of Infancy](#)
- [Prediabetic State](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)