HNF4A Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HNF4A, Recombinant Protein
Full Product Name	Recombinant Human HNF4A
Product Gene Name	HNF4A recombinant protein
Product Synonym Names	FLJ39654; FRTS4; Hepatic nuclear factor 4 alpha; Hepatocyte nuclear factor 4; Hepatocyte nuclear factor 4 alpha; Hepatocyte nuclear factor 4-alpha; HNF 4; HNF 4 alpha; HNF-4-alpha; HNF4; HNF4A; HNF4A_HUMAN; HNF4a7; HNF4a8; HNF4a9; Hnf4alpha; HNF4alpha10/11/12; MODY; MODY 1; MODY1; NR2A1; NR2A21; Nuclear receptor subfamily 2 group A member 1; OTTHUMP00000031060; OTTHUMP00000031062; TCF; TCF 14
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	52,785 Da
Sequence Positions	369-474
Chromosome Location	Chromosome: 20; NC_000020.10 (42984441..43061485). Location: 20q13.12
OMIM	125850
3D Structure	ModBase 3D Structure for P41235
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for HNF4A recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for HNF4A recombinant protein	MBS7613402 is a recombinant protein targeting HNF4A. Also known as Recombinant Human HNF4A. Host: E Coli.
Other Notes	Small volumes of HNF4A recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HNF4A. It may not necessarily be applicable to this product.

NCBI GI #	31077205
NCBI GeneID	3172
NCBI Accession #	NP_000448.3
UniProt Primary Accession #	P41235

UniProt Secondary Accession #	O00659; O00723; Q14540; Q5QPB8; Q6B4V5; Q6B4V6; Q6B4V7; Q92653; Q92654; A5JW41; B2RPP8
UniProt Related Accession #	P41235
GenBank Nucleotide #	NM_000457.4
NCBI Official Full Name	hepatocyte nuclear factor 4-alpha isoform b
NCBI Official Synonym Full Names	hepatocyte nuclear factor 4, alpha
NCBI Official Symbol	HNF4A
NCBI Official Synonym Symbols	TCF; HNF4; MODY; MODY1; NR2A1; TCF14; HNF4a7; HNF4a8; HNF4a9; NR2A21; HNF4alpha
UniProt Protein Name	Hepatocyte nuclear factor 4-alpha
UniProt Synonym Protein Names	Nuclear receptor subfamily 2 group A member 1; Transcription factor 14; TCF-14; Transcription factor HNF-4
Protein Family	Hepatocyte nuclear factor
UniProt Gene Name	HNF4A
UniProt Synonym Gene Names	HNF4; NR2A1; TCF14; HNF-4-alpha; TCF-14
UniProt Entry Name	HNF4A_HUMAN
NCBI Protein Information	hepatocyte nuclear factor 4-alpha; TCF-14; HNF4alpha10/11/12; transcription factor 14; transcription factor HNF-4; hepatic nuclear factor 4 alpha; nuclear receptor subfamily 2 group A member 1
NCBI Summary for HNF4A	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 encoding several different isoforms. [provided by RefSeq, Apr 2012]
UniProt Comments for HNF4A	HNF4 alpha: a nuclear transcription factor which binds DNA as a homodimer. Controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic gene, alpha 1-antitrypsin, apolipoprotein CIII, and transthyretin genes. May be essential for development of the liver, kidney and intestine. Mutations have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Four alternatively spliced isoforms have been described. Protein type: Nuclear receptor; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 20q13.12 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; ligand-dependent nuclear receptor activity; protein homodimerization activity; DNA binding; zinc ion binding; steroid hormone receptor activity; fatty acid binding; transcription factor activity; receptor binding Biological Process: transcription initiation from RNA polymerase II promoter; intracellular receptor-mediated signaling pathway; regulation of lipid metabolic process; positive regulation of transcription, DNA-dependent; lipid homeostasis; glucose homeostasis; endocrine pancreas development; regulation of transcription from RNA polymerase II promoter; negative regulation of cell proliferation; regulation of gastrulation; xenobiotic metabolic process; response to glucose stimulus; ornithine metabolic process; steroid hormone mediated signaling; positive regulation of transcription from RNA polymerase II promoter; gene expression; lipid metabolic process; negative regulation of cell growth; blood coagulation; sex differentiation; regulation of insulin secretion; phospholipid homeostasis Disease: Fanconi Renotubular Syndrome 4 With Maturity-onset Diabetes Of The Young; Maturity-onset Diabetes Of The Young, Type 1; Diabetes Mellitus, Noninsulin-dependent
Research Articles on HNF4A	**1.** Suggest that lower expression of HNF4alpha and PGC1alpha may impair rifampicin-mediated CYP3A4 induction under conditions of PXR overexpression in fetal liver cells.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/hnf4a/7613402