

Recombinant Full Length Human HNF4A Protein, C-Flag-tagged

Cat. No. HNF4A-88HFL Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Full Length Human HNF4A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| Description | 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. |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 52.6 kDa |
| AA Sequence | MRLSKTLVDMDMADYSAALDPAYTTLEFENVQVLTMGNDTSPSEGTLNAPNSLGV SALCAICGDRATGK HYGASSCDGCKGFFRRSVRKNHMYSCRFSRQCVDKDKRN QCRYCRLKKCFRAGMKKEAVQNERDRISTR RSSYEDSSLPSINALLQAEVLSRQITS PVSGINGDIRAKKIASIADVCEMKEQLLVLEWAKYIPAFCE LPLDDQVALLRAHAG |

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EHLLLGATKRSMVFKDVLLLGNDYIVPRHCPELAEMSRVSIRILDELVLPPFQELQ IDD
 NEYAYLKAIFFDPDAKGLSDPGKIKRLRSQVQVSLEDYINDRQYDSRGRFGELL
 PTLQSITWQ MIEQIQFIKLFGMKIDNLLQEMLLGGSPSDAPHAHHPLHPLMQEHM
 GTNVIVANTMPHLSNGQMCEW
 PRPRGQAATPETPQPSPGGSGSEPYKLLPGAVATIVKPLSAIPQPTITKQEVITRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

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|-------------------------|---|
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| Stability | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| Storage | Store at -80 centigrade. |
| Concentration | >50 ug/mL as determined by microplate BCA method. |
| Preparation | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Protein Families | Druggable Genome, ES Cell Differentiation/IPS, Nuclear Hormone Receptor, Transcription Factors |
| Protein Pathways | Maturity onset diabetes of the young |
| Full Length | Full L. |

GENE INFORMATION

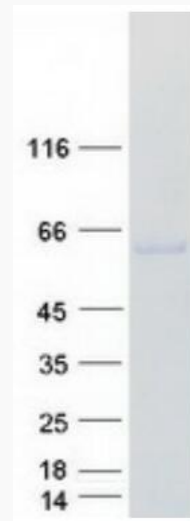
| | |
|------------------------|--|
| Gene Name | HNF4A hepatocyte nuclear factor 4 alpha [Homo sapiens (human)] |
| Official Symbol | HNF4A |

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|-----------------------|--|
| Synonyms | TCF; HNF4; MODY; FRTS4; MODY1; NR2A1; TCF14; HNF4a7; HNF4a8; HNF4a9; NR2A21; TCF-14; HNF4alpha |
| Gene ID | 3172 |
| mRNA Refseq | NM_000457.6 |
| Protein Refseq | NP_000448.3 |
| MIM | 600281 |
| UniProt ID | P41235 |



Coomassie blue staining of purified HNF4A protein.

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