

## Product datasheet for PH311443

### HNF 4 alpha (HNF4A) (NM\_001030003) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HNF4A MS Standard C13 and N15-labeled recombinant protein (NP_001025174)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211443
Predicted MW:	48.8 kDa
Protein Sequence:	>RC211443 representing NM_001030003 Red=Cloning site Green=Tags(s)

MYSVNAPLGAPVESSYDTSPSEGTNLNAPNSLGVSAICGDRATGKHYGASSCDGCKGFFRRSVRKNH  
MYSCRFSRQCVDKDKRNQCRCYRLLKCFRAGMKKEAVQNERDRISTRSSYEDSSLPSINALLQAEVLS  
RQITSPVSGINGDIRAKKIASIADVCESMKEQLLVLVEWAKYIPAFCELPLDDQVALLRAHAGEHLLLGA  
TKRSMVFKDVLVLLGNDYIVPRHCPELAEMSRVSIRILDELVLPFQELQIDDNEYAYLKAIFFDPDAKGL  
SDPGKIKRLRSQVQSLEDYINDRQYDSRGRFGELLLLLPTLQSIWQMIEQIQFIKLFMAKIDNLLQE  
MLLGGSPSDAPHAHPLHPLMQEHMGTNVIVANTMPTHL SNGQMSTPETPQPSPGGSGSEPYKLLPGA  
VATIVKPLSAIPQPTITKQEVI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001025174</a>
RefSeq Size:	1339
RefSeq ORF:	1326



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**Synonyms:** FRTS4; HNF4; HNF4a7; HNF4a8; HNF4a9; HNF4alpha; MODY; MODY1; NR2A1; NR2A21; TCF; TCF-14; TCF14

**Locus ID:** 3172

**UniProt ID:** [P41235](#)

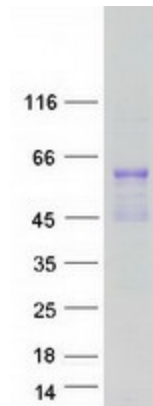
**Cytogenetics:** 20q13.12

**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 encoding several different isoforms. [provided by RefSeq, Apr 2012]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:** Maturity onset diabetes of the young

### Product images:



Coomassie blue staining of purified HNF4A protein (Cat# [TP311443]). The protein was produced from HEK293T cells transfected with HNF4A cDNA clone (Cat# [RC211443]) using MegaTran 2.0 (Cat# [TT210002]).