

Product datasheet for PH311201

HNF1 alpha (HNF1A) (NM_000545) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HNF1A MS Standard C13 and N15-labeled recombinant protein (NP_000536)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211201
Predicted MW:	67.2 kDa
Protein Sequence:	>RC211201 representing NM_000545 Red=Cloning site Green=Tags(s)

MVSKLSQLQTELLAALLESGLSKEALLQALGEPGPYLLAGEGPLDKGESCGGGRGELAEPLNGLGETRGS
EDETDDDGEDFTPPILKELENLSPEEAAHQKAVVETLLQEDPWRVAKMVKSYLQQHNIPQREVVDTTGLN
QSHLSQHLNKGTPMKTQKRAALYTWYVRKQREVAQQFTHAGQGGLEIEPTGDELPTKKGRRNRFKWGPAS
QQILFQAYERQKNPSKEERETLVEECNRAECIQRGVSPSQAQGLGSLNVTEVRVYNWFANRRKEEAFRHK
LAMDTYSGPPPGPGPALPAHSSPGLPPPALSPSKVHGVRYGQPATSETAEVPSSSGGPLVTVSTPLHQ
VSPTGLEPSHLLSTEAKLVSAAGGLPPVSTLTALHSLEQTSPLNQPPQNLIMASLPGVMTIGPGEPA
SLGPTFTNTGASTLVIGLASTQAQSVPVINSMGSSLTTLQPVQFSQPLHPSYQQPLMPPVQSHVTQSPFM
ATMAQLQSPHALYSHKPEVAQYTHGLLPQTMLITDNTLNSALASLTPTKQVFTSDTEASSEGLHTPAS
QATTLHVPSQDPAGIQHLQPAHRLSASPTVSSSLVLYQSSDSSNGQSHLLPSNHSVIETFISTQMASSS
Q

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_000536
RefSeq Size:	3249



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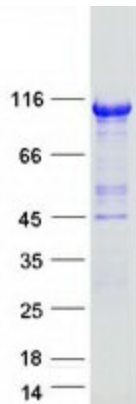
RefSeq ORF:	1893
Synonyms:	HNF-1A; HNF1; HNF1alpha; HNF4A; IDDM20; LFB1; MODY3; TCF-1; TCF1
Locus ID:	6927
UniProt ID:	P20823 , E0YMI7
Cytogenetics:	12q24.31

Summary: The protein encoded by this gene is a transcription factor required for the expression of several liver-specific genes. The encoded protein functions as a homodimer and binds to the inverted palindrome 5'-GTTAATNATTAAC-3'. Defects in this gene are a cause of maturity onset diabetes of the young type 3 (MODY3) and also can result in the appearance of hepatic adenomas. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Protein Families: Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

Product images:



Coomassie blue staining of purified HNF1A protein (Cat# [TP311201]). The protein was produced from HEK293T cells transfected with HNF1A cDNA clone (Cat# [RC211201]) using MegaTran 2.0 (Cat# [TT210002]).