

## Product datasheet for **TP701008**

### **HNF1 alpha (HNF1A) (NM\_000545) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human HNF1 homeobox A (HNF1A), mutant (C241S), expressed in HEK293 cells, 20ug
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence from TrueORF clone, RC211201, encoding human HNF1A, mutant C241S
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	67.2 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000536</a>
<b>Locus ID:</b>	6927
<b>UniProt ID:</b>	<a href="#">P20823</a> , <a href="#">E0YMI7</a>
<b>RefSeq Size:</b>	3249
<b>Cytogenetics:</b>	12q24.31
<b>RefSeq ORF:</b>	1893
<b>Synonyms:</b>	HNF-1A; HNF1; HNF1alpha; HNF4A; IDDM20; LFB1; MODY3; TCF-1; TCF1



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**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:**