

HNF 4 alpha (HNF4A) Recombinant Protein, Human (C-His)

Cat. No.:	HY-P701139
Synonyms:	FRTS4; HNF4; HNF4a7; HNF4a8; HNF4a9; HNF4alpha; MODY; MODY1; NR2A1; NR2A21; TCF; TCF-14; TCF14
Species:	Human
Source:	HEK293
Accession:	NP_000448 (M1-l474)
Gene ID:	3172
Molecular Weight:	Approximately 70-80 kDa

PROPERTIES

AA Sequence	<pre> M R L S K T L V D M D M A D Y S A A L D P A Y T T L E F E N V Q V L T M G N D T S P S E G T N L N A P N S L G V S A L C A I C G D R A T G K H Y G A S S C D G C K G F F R R S V R K N H M Y S C R F S R Q C V V D K D K R N Q C R Y C R L K K C F R A G M K K E A V Q N E R D R I S T R R S S Y E D S S L P S I N A L L Q A E V L S R Q I T S P V S G I N G D I R A K K I A S I A D V C E S M K E Q L L V L V E W A K Y I P A F C E L P L D D Q V A L L R A H A G E H L L L G A T K R S M V F K D V L L L G N D Y I V P R H C P E L A E M S R V S I R I L D E L V L P F Q E L Q I D D N E Y A Y L K A I I F F D P D A K G L S D P G K I K R L R S Q V Q V S L E D Y I N D R Q Y D S R G R F G E L L L L L P T L Q S I T W Q M I E Q I Q F I K L F G M A K I D N L L Q E M L L G G S P S D A P H A H H P L H P H L M Q E H M G T N V I V A N T M P T H L S N G Q M C E W P R P R G Q A A T P E T P Q P S P P G G S G S E P Y K L L P G A V A T I V K P L S A I P Q P T I T K Q E V I </pre>
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 10% glycerol, pH 7.3.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	HNF 4 alpha, the protein product of this gene, functions as a nuclear transcription factor, forming homodimers to bind DNA
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and exerting control over the expression of various genes, including hepatocyte nuclear factor 1 alpha, a key regulator of hepatic gene expression. Its involvement extends to the development of vital organs such as the liver, kidney, and intestines. Mutations in HNF 4 alpha have been linked to monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I, underscoring its significance in metabolic regulation. Additionally, alternative splicing yields multiple transcript variants, generating diverse isoforms. Notably, HNF 4 alpha displays biased expression, with higher levels observed in the duodenum (RPKM 37.7), colon (RPKM 32.8), and seven other tissues, emphasizing its specialized role in diverse physiological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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