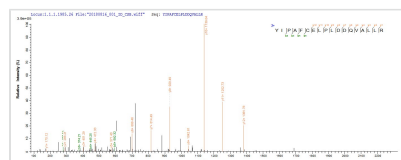




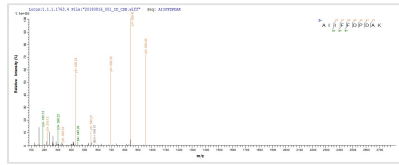
Recombinant Human Hepatocyte nuclear factor 4-alpha (HNF4A)

Product Code	CSB-EP010594HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P41235
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MRLSKTLVDMDMADYSAALDPAYTTLEFENVQVLTMGNDTSPSEGTLNAPN SLGVSAALCAICGDRATGKHYGASSCDGCKGFFRRSVRKNHMYSCRFSRQCV VDKDKRNQCRYCRLKKCFRAGMKKEAVQNERDRISTRSSYEDSSLPSINALL QAEVLSRQITSPVSGINGDIRAKKIASIADVCEMKEQLLVLEWAKYIPAFCEL PLDDQVALLRAHAGEHLLLGATKRSMVFKDVLLLGNDYIVPRHCPELAEMSRV SIRILDELVLPFQELQIDDNEYAYLKAIIFFDPAKGLSDPGKIKRLRSQVQVSLE DYINDRQYDSRGRFGELLLLLPTLQSIWQMIEQIQFIKLFGMAKIDNLLQEMLL GGSPSDAPHAHHPLHPLMQEHMGTVIVANTMPTHLSNGQMCEWPRPRG QAATPETPQPSPGGSGSEPYKLLPGAVATIVKPLSAIQPTITKQEVI
Research Area	Cancer
Source	E.coli
Target Names	HNF4A
Protein Names	Recommended name: Hepatocyte nuclear factor 4-alpha Short name= HNF-4-alpha Alternative name(s): Nuclear receptor subfamily 2 group A member 1 Transcription factor 14 Short name= TCF-14 Transcription factor HNF-4
Expression Region	1-474aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	59.8 kDa
Protein Length	Full Length

Image



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP010594HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) HNF4A.



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Description

The region for expressing recombinant Human HNF4A contains amino acids 1-474. The theoretical molecular weight of the HNF4A protein is 59.8 kDa. This protein is generated in a e.coli-based system. The HNF4A gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant HNF4A protein during the following stages.

Human hepatocyte nuclear factor 4-alpha (HNF4A) is a transcription factor that plays a crucial role in the development and function of various organs, with a predominant presence in the liver, kidney, and intestine. As a member of the nuclear receptor superfamily, HNF4A regulates the expression of genes involved in glucose and lipid metabolism, as well as cell differentiation and proliferation. It is a key player in maintaining liver function, controlling the balance of glucose and lipid homeostasis, and influencing the development of pancreatic beta cells. Mutations in the HNF4A gene are associated with maturity-onset diabetes of the young (MODY), underlining its significance in insulin secretion. Research on HNF4A extends to understanding its role in metabolic disorders, organ development, and potential therapeutic targets for diabetes and related conditions.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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