



# Recombinant Rat Hepatocyte nuclear factor 1-alpha (Hnf1a)

<b>Product Code</b>	CSB-EP010592RA-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P15257
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MVSKLSQLQT ELLAALLESGLSKEALIQALGEPGPYLMVGDGPLDKGESC GGTRGDLTEL PNLGGETRGS EDDTDDDDGED FAPPILKELE NLSPEEAAHQ KAVVESLLQE DPWRVAKMVK SYLQQHNIPQ REVVDTTGLN QSHLSQHLNK GTPMKTQKRA ALYTWYVRKQ REVAQQFTHA GQGGLIEEPT GDELPTKKGR RNRFKWGPAS QQILFQAYER QKNPSKEERE TLVEECNRAE CIQRGVSPSQ AQGLGSNLVT EVRVYNWFAN RRKEEAFRHK LAMDTYNGPP PGP GPGPALP AHSSPGLPTT TLSPSKVHGV RYGQSATSEA AEPSSSSGGP LVTVSAALHQ VSPTGLEPSS LLSTEAKLVS ATGGPLPPVS TLTALHSLEQ TSPGLNQQPQ NLIMASLPGV MTIGPGEPAS LGPTFTNTGA STLVIGLAST QAQSVPVINS MGSSLTTLQP VQFSQPLHPS YQQPLMPPVQ SHVAQSPFMA TMAQLQSPHA LYSHKPEVAQ YTHTSLLPQT MLITDTNLST LASLTPTKQV FTS DTEASSE PGLHEPSSPA TTIHIPSQDP SNIQHLQPAH RLSTSPVSS SSLVLYQSSD SNGHSHLLPS NHGVIETFIS TQMASSSQ
<b>Source</b>	E.coli
<b>Target Names</b>	Hnf1a
<b>Protein Names</b>	Recommended name: Hepatocyte nuclear factor 1-alpha Short name= HNF-1-alpha Short name= HNF-1A Alternative name(s): Liver-specific transcription factor LF-B1 Short name= LFB1 Transcription factor 1 Short name= TCF-1
<b>Expression Region</b>	1-628
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein 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.
<b>Reconstitution</b>	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  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . Our default final concentration of glycerol is 50%. Customers could use it as reference.

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### Shelf Life

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  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . The shelf life of lyophilized form is 12 months at  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ .