

Recombinant Human FOXA1

Cat. No. FOXA1-126H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FOXA1 was expressed in E. coli and refolded to soluble form.
Species	Human
Source	E.coli
ProteinLength	1-472 aa
Description	FOXA1 is a member of the forkhead box family of DNA-binding proteins. FOXA1 is a hepatocyte nuclear factor (specifically, HNF-3 α) that is a transcriptional activator for liver-specific genes such as AFP and albumin. During embryonic development, FoxA1 is involved in the development of multiple endoderm-derived organs such as liver, pancreas, lung and prostate. In studying in vitro stem cell differentiation, FOXA1 expression is used as a marker for endoderm lineage cells.
Form	200 μ g/ml (determined by Bradford assay) in 500 mM L-arginine, 300 mM guanidine-HCl, 50 mM HEPES, 5 mM cystamine, 5 mM cysteamine, 5 mM CaCl ₂ , 3 mM DTT, pH 7.5.
Molecular Mass	472 AA; 49.1 kDa
Purity	>80% by SDS-PAGE
Storage	Store at -80 °C. Avoid multiple freeze-thaws.

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GENE INFORMATION

Gene Name	FOXA1 forkhead box A1 [Homo sapiens]
Official Symbol	FOXA1
Synonyms	FOXA1; forkhead box A1; hepatocyte nuclear factor 3, alpha , HNF3A; hepatocyte nuclear factor 3-alpha; HNF-3A; TCF-3A; HNF-3-alpha; forkhead box protein A1; transcription factor 3A; hepatocyte nuclear factor 3, alpha; HNF3A; TCF3A; MGC33105;
Gene ID	3169
mRNA Refseq	NM_004496
Protein Refseq	NP_004487
MIM	602294
UniProt ID	P55317
Chromosome Location	14q12-q13
Pathway	Direct p53 effectors, organism-specific biosystem; FOXA transcription factor networks, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem;
Function	DNA binding; DNA binding, bending; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive

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regulation of transcription; double-stranded DNA binding; protein domain specific binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding; transcription regulatory region DNA binding;

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