

# Recombinant human HOXA9 protein

Catalog Number: ATGP2667

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-272aa

### UniProt No.

P31269

### NCBI Accession No.

NP\_689952

### Alternative Names

Homeobox protein Hox-A9, ABD-B, HOX1, HOX1.7, HOX1

## PRODUCT SPECIFICATION

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### Molecular Weight

32.6 kDa (295aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HOXA9 belongs to the Abd-B homeobox family. This protein is a transcription factor with a central role in both haemopoiesis and leukaemia. High levels of HOXA9 expression in haemopoietic cells is a characteristic feature of acute myeloid leukaemia (AML), and may be sufficient to cause this disease. Overexpression of Hoxa 9 markedly expands hematopoietic stem cells. Recombinant human HOXA9 protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Recombinant human HOXA9 protein

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### Amino acid Sequence

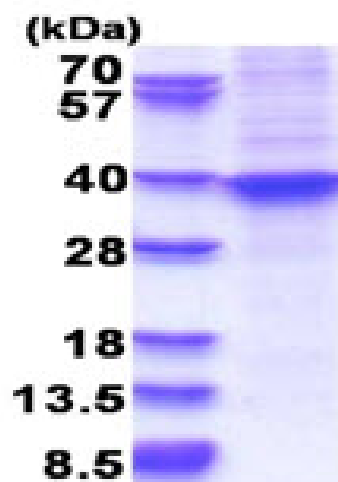
MGSSHHHHHH SSGLVPRGSH MGSMATTGAL GNYVDSFLL GADAADELSV GRYAPGTLGQ PPRQAATLAE HPDFSPCSFQ  
SKATVFGASW NPVHAAGANA VPAAVYHHHH HHPYVHPQAP VAAAAPDGRY MRSWLEPTPG ALSFAGLPSS RPYGIKPEPL  
SARRGDCPTL DTHTLSLTDY ACGSPPVDRE KQPSEGAFSE NNAENESGGD KPPIDPNNPA ANWLHARSTR KKRCPYTKHQ  
TLELEKEFLF NMYLTRDRRY EVARLLNLTE RQVKIWFQNR RMKMKKINKD RAKDE

### General References

Bandyopadhyay S., et al. (2012) Mol. Cell. Biol. 32:1202-1213  
Patel C.V., et al. (1999) J. Biol. Chem. 274:1415-1422

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)