
Product Data Sheet

Product Name: HOXA9 Human
 Cat. No.: GP23672
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Homeobox A9; HOX1G; Homeobox Protein Hox-1G; Homeodomain Protein HOXA9; Homeobox Protein Hox-A9; Homeo Box A9; HOX1.7; ABD-B; HOX1; HOXA9.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMATTGAL GNYYVDSFLL GADAADELSV GRYAPGTLGQ PPRQAATLAE HPDFSPCSFQ SKATVFGASW NPVHAAGANA VPAAVYHHHH HHPYVHPQAP VAAAAPDGRY MRSWLEPTPG ALSFAGLPSS RPYGIKPEPL SARRGDCPTL DTHTLSLTDY ACGSPPVDRE KQPSEGAFSE NNAENESGGD KPIDPNNPA ANWLHARSTR KKRCPYTKHQ TLELEKEFLF NMYLTRDRRY EVARLLNLTE RQVKIWFQNR RMKMKKINKD RAKDE.		
Formulation	The HOXA9 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Homeobox A9 (HOXA9) is a member of the Abd-B homeobox family. The HOXA9 protein is a transcription factor with a key role in both haemopoiesis and leukaemia. High levels of HOXA9 expression in haemopoietic cells is a distinctive feature of acute myeloid leukaemia (AML), and may be sufficient to cause this disease. HOXA9 overexpression noticeably expands hematopoietic stem cells. The HOXA9 gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which regulates gene expression, morphogenesis, and differentiation. HOXA9 is a sequence-specific transcription factor which is part of a developmental regulatory system, which provides cells with specific positional identities on the anterior-posterior axis. HOXA9 is essential for induction of E-selectin and VCAM-1, on the endothelial cells surface at sites of inflammation.

Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

HOXA9 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 295 amino acids (1-272) and having a molecular mass of 32.6 kDa. HOXA9 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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