Recombinant Human HOXB4 Protein (His Tag)

Catalog Number: PKSH033457



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Homeobox protein Hox-B4;Homeobox protein Hox-2.6;Homeobox protein

Hox-2F;HOXB4;HOX2F

SpeciesHumanExpression HostE.coli

Sequence Met1-Leu251(Leu175Asp,Glu176Lys,Glu178Lys)

AccessionP17483Calculated Molecular Weight29.8 kDaObserved molecular weight36 kDaTagN-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

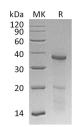
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 4mM HCl.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Homeobox B4 (HOXB4) is encoded by the HOXB4 gene which is a member of the the class I homeobox (HOX) gene family and encodes a nuclear protein with a homeobox DNA-binding domain. These genes are master control regulators of developmental programs including embryonic and adult hematopoiesis. Multiple HOX genes, including HOXB4, are highly expressed in the hematopoietic stem cells (HSC) compartment. HOXB4 gene can act in opposite ways when expressed by different cells, promoting the proliferation of stem cells whilst activating the apoptotic pathway in some embryonic structures. The protein HOXB4, as a homeodomain transcription factor, has been shown to be an important regulator of stem cell renewal and hematopoiesis. Incellular or ectopic expression of HOXB4 expands hematopoietic stem and progenitor cells in vivo and in vitro, making it a potential candidate for therapeutic stem cell expansion.

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