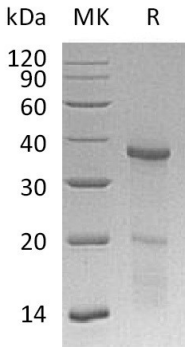
Product Name: Recombinant Human HOXB4 (L175D, E176K, E178K, N-6His)
Catalog #: PEH0805

Summary

Name	HOXB4 (L175D, E176K, E178K)
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Homeobox Protein B4 is produced by our E.coli expression system and the target gene encoding Met1-Leu251 (Leu175Asp, Glu176Lys, Glu178Lys) is expressed with a 6His tag at the N-terminus.
Accession #	P17483
Host	E.coli
Species	Human
Predicted Molecular Mass	29.8 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 4mM HCl.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	Homeobox protein Hox-B4; Homeobox protein Hox-2.6; Homeobox protein Hox-2F; HOXB4; HOX2F
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.

Note

For Research Use Only , Not for Diagnostic Use.