

Recombinant Human HOXD4, His-tagged

Cat. No. HOXD4-13914H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HOXD4 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-255a.a.
Description	This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5 end of this cluster have been associated with severe limb and genital abnormalities. The protein encoded by this gene may play a role in determining positional values in developing limb buds. Alternatively spliced variants have been described but their full length nature has not been determined.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM

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Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	HOXD4 homeobox D4 [Homo sapiens]
Official Symbol	HOXD4
Synonyms	HOXD4; homeobox D4; homeo box D4 , HOX4, HOX4B; homeobox protein Hox-D4; homeobox protein Hox-4B; homeobox protein HHO.C13; homeobox protein Hox-5.1; Hox-4.2, mouse, homolog of homeo box X; HOX4; HOX4B; HHO.C13; HOX-5.1; Hox-4.2;
Gene ID	3233
mRNA Refseq	NM_014621
Protein Refseq	NP_055436
UniProt ID	P09016
Chromosome Location	2q31.1
Function	sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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