

Active Recombinant Human Left-right Determination Factor 1

Cat. No. Lefty1-1915H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Left-right Determination Factor 1 was expressed in <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	Lefty (left-right determination factors) are proteins that are closely related members of the TGF-beta family of growth factors. These proteins are secreted and play a role in left-right asymmetry determination of organ systems during development. Mutations of the genes encoding these proteins have been associated with left-right axis malformations, particularly in the heart and lungs.
Activity	10 to 40 ng/mL ED50.
Purity	>90%.
Endotoxin	Endotoxin-free.
Molecular Mass	38 kDa, monomer, glycosylated.
Purity Confirmation	The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Activity Assay	The specific activity was determined by dose dependent ability to inhibit BMP-4 (6.5

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ng/mL) induction of alkaline phosphatase production in the MC-3T3-E1 cell line (Mouse chondrogenic cell line).

GENE INFORMATION

Gene Name	LEFTY1 left-right determination factor 1 [Homo sapiens]
Synonyms	LEFTB; LEFTYB; LEFTY1; left-right determination factor 1; left-right determination, factor B; Protein lefty-1; Left-right determination factor B; Protein lefty-B; UNQ278/PRO317
Gene ID	10637
mRNA Refseq	NM_020997
Protein Refseq	NP_066277
MIM	603037
UniProt ID	O75610
Chromosome Location	1q42.1
Pathway	TGF-beta signaling pathway
Function	cytokine activity; growth factor activity; transforming growth factor beta receptor binding

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