

Active Recombinant Mouse Left Right Determination Factor 1

Cat. No. Lefty1-579M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse PDGF-BB is a non-glycosylated polypeptide consisting of two PDGF-B chains of 109 amino acids each. The final protein is a disulfide-linked homodimer of 218 amino acids with a molecular weight of 24.6 kDa.
Species	Mouse
Source	E.coli
Description	Recombinant Mouse Platelet Derived Growth Factor BB is part of a family of PDGFs including AA, AB and BB. All of them are disulfide-linked homodimers and play an important role in the mitogenic activity for connective tissue, blood, bone and cartilage cells.
Form	Lyophilized from 10 mM NaCitrate, pH 3.0.
Purity	Purity Greater than 98% as determined by: Reducing and non-reducing SDS-PAGE. Analytical HPLC.
Bio-activity	The biological activity is determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of <1.6 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and

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wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 - 0.5 mg/s/ml, which can be further diluted into other aqueous solutions.

Purity Greater than 98% as determined by

Reducing and non-reducing SDS-PAGE. Analytical HPLC

Protein Content determined by

UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard.

Endotoxin Level

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Amino acid sequence

MSLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV WPPCVEVQRC
SGCCNNRNQVQ CRASQVQMRPVQVRKIEIVR KKPIFKKATV TLEDHLACKC
ETIVTPRPVT

Storage

Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name

[Lefty1 left right determination factor 1 \[Mus musculus \]](#)

Official Symbol

[Lefty1](#)

Synonyms

Lefty1; left right determination factor 1; left-right determination factor 1; Left-right determination factor B; LEFTYB; Protein lefty-1; Protein lefty-B; left-right determination, factor B; Ebaf; Leftb; Stra3; Tgfb4; lefty; lefty-1; AI450052; TGF-beta-4; OTTMUSP00000023876; transforming growth factor beta-4; stimulated by retinoic

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	acid gene 3 protein
Gene ID	13590
mRNA Refseq	NM_010094
Protein Refseq	NP_034224
UniProt ID	Q64280
Chromosome Location	1; 1 F
Pathway	Formation of Platelet plug; Hemostasis; Platelet Activation; Platelet degranulation; PluriNetWork; Response to elevated platelet cytosolic Ca ²⁺ ; TGF-beta signaling pathway
Function	cytokine activity; growth factor activity; transforming growth factor beta receptor binding
PDB rendering based on 1kla.	