

Recombinant Mouse Lefty2 protein, His-tagged

Cat. No. Lefty2-7973M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Lefty2 aa. (Tyr247~Asp358 (Accession # P57785)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Tyr247~Asp358
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate the mature protein, which plays a role in left-right asymmetry determination of organ systems during development. This protein is also important in self-renewal and differentiation of mouse embryonic stem cells. Mice lacking a functional copy of this gene exhibit defects in axial and left-right patterning.
Form	Freeze-dried powder
Molecular Mass	14 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.6.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Lefty2 left-right determination factor 2 [Mus musculus (house mouse)]
Official Symbol	Lefty2
Synonyms	Lefty2; left-right determination factor 2; Ebaf; Lefta; Leftb; lefty-2; lefty-B; 6030463A22Rik; left-right determination factor 2; endometrial bleeding associated factor; left-right determination factor B; left-right determination, factor A
Gene ID	320202
mRNA Refseq	NM_177099.4

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Protein Refseq	NP_796073.1
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UniProt ID	P57785
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