

## Recombinant Rat LEFTY1 Protein, His-tagged

**Cat. No.** LEFTY1-19R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Rat LEFTY1 Protein, fused to His-tag, was expressed in HEK293T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | <p>Predicted to enable cytokine activity and nodal binding activity. Predicted to be involved in several processes, including negative regulation of nodal receptor complex assembly; regulation of transmembrane receptor protein serine/threonine kinase signaling pathway; and transmembrane receptor protein serine/threonine kinase signaling pathway. Predicted to act upstream of or within several processes, including anterior/posterior axis specification; cell migration involved in gastrulation; and response to retinoic acid. Predicted to be located in extracellular region. Predicted to be active in extracellular space. Orthologous to several human genes including LEFTY1 (left-right determination factor 1).</p> |
| <b>Form</b>             | PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 40.66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | LTGEQVLGSLLQQRLDRPPVLDKADVEGMVIPSHVRAQYVALLQHSRHSRSGKR<br>FSQNFREVAGRFLVSETSSHLLVFGMEQRLPPNSELVQAVLRLFQEPVPRTALRRQ<br>KRLSPHSARARVTIEWLRFREDGSGNRRTALIDSRLVSIHESGWKVFVDVTEAVNFWQQQL<br>SRPRQPLLLQVSVQREHLGPGTWSAHKLVRFAAQGTPDGKGLGEPQLELHTLDLK<br>DYGAQGNCDPETPVTEGTRCCRQEMYLDLQGMKWAENWILEPPGFLTYECVGSCL                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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QPPESLTIRWPFLGPRQCVASEMTSLPLIVSIKEDGRTRPQVVSLPNMRVQRCSCAS  
DGALIPRRLEPDDDDKHHHHHH

**Endotoxin** <1EU/ug by LAL

**Purity** >90% by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Concentration** 0.46 mg/ml

## GENE INFORMATION

**Gene Name** Lefty1 left right determination factor 1 [ Rattus norvegicus (Norway rat) ]

**Official Symbol** LEFTY1

**Synonyms** RGD1561867

**Gene ID** 498299

**mRNA Refseq** NM\_001109080.1

**Protein Refseq** NP\_001102550.1

**UniProt ID** D4A670

**SDS-PAGE** Reducing 12% SDS-PAGE and WB analysis profiles of purified LEFTY1-001R.

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