

## Active Recombinant Human LEFTY2 protein, hFc-tagged

**Cat. No.** LEFTY2-799H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human LEFTY2 protein(NP_003231.2) (Phe 78-Pro 366) was expressed in HEK293, fused with the Fc region of human IgG1 at the N-terminus.                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 78-366 aa                                                                                                                                                                                                                                                                                                |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | Measured by its ability to inhibit recombinant human BMP4 induced alkaline phosphatase production by MC3T3-E1 cells. The ED50 for this effect is typically 4-16 µg/mL in the presence of 50 ng/mL of recombinant human BMP4.                                                                             |
| <b>Molecular Mass</b>   | The recombinant human LeftyA/Fc is a disulfide-linked homodimer The reduced monomer consists of 526 amino acids and has a predicted molecular mass of 58.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh LeftyA/Fc monomer is approximately 70 kDa due to glycosylation. |
| <b>Endotoxin</b>        | < 1 EU/g as determined by LAL test.                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to                                                                                                                                                                                                                         |

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aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

**Gene Name** LEFTY2 left-right determination factor 2 [ Homo sapiens ]

**Official Symbol** LEFTY2

**Synonyms**

LEFTY2; left-right determination factor 2; EBAF, endometrial bleeding associated factor (left right determination, factor A; transforming growth factor beta superfamily) , TGFB4; LEFTA; LEFTYA; transforming growth factor; beta 4 (endometrial bleeding associated factor; LEFTY A); TGF-beta-4; protein lefty-2; protein lefty-A; left-right determination factor A; transforming growth factor beta-4; endometrial bleeding-associated factor; EBAF; TGFB4; MGC46222;

**Gene ID** 7044

**mRNA Refseq** NM\_003240

**Protein Refseq** NP\_003231

**UniProt ID** O00292

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