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32-8935: Recombinant Human Left-right Determination Factor 2/Lefty-A(N-6His)

Gene ID: 7044 **Uniprot ID**: 000292

Description

Source: Human Cells. MW :39 1kD

Recombinant Human Left-right Determination Factor 2 is produced by our Mammalian expression system and the target gene encoding Phe78-Pro366 is expressed fused with a Mouse Lefty-1 Propeptide (Leu22-Arg77) & 6His tag at the N-terminus. Left-right determination factor 2(LEFTY2) is a secreted protein which belongs to the TGF-beta family. Lefty was first identified in a screen for undifferentiated cell-specific cDNAs from the P19 mouse embryonal carcinoma cells. Its mRNA expression on the left side of the developing embryo earned the name "Lefty". The human orthologue was initially identified as Ebaf, Endometrial bleeding associated factor. Lefty contains the six cysteine residues that are conserved among TGF- beta related proteins and that are necessary to form the cysteineknot structure. Its function in patterning left-right asymmetry of the developing organ systems such as the heart and lung is consistent in all vertebrate species examined. Lefty acts as an antagonist to Nodal signaling, potentially by competing for binding to a common receptor. It may play a role in endometrial bleeding.

Product Info

Amount: $10 \mu g / 50 \mu g$

Content: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Lyophilized protein should be stored at -20 $^{\circ}$ C, though stable at room temperature for 3 weeks.

Storage condition : Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted

samples are stable at -20°C for 3 months.

Amino Acid: LTGEQILGSLLQQLQLDQPPVLDKADVEGMVIPSHVRTQYVALLQHSHASRSRGKRHHHHHHHFSQ

SFREVAGRFLASEASTHLLVFGMEQRLPPNSELVQAVLRLFQEPVPKAALHRHGRLSPRSAQARV TVEWLRVRDDGSNRTSLIDSRLVSVHESGWKAFDVTEAVNFWQQLSRPRQPLLLQVSVQREHLG PLASGAHKLVRFASQGAPAGLGEPQLELHTLDLRDYGAQGDCDPEAPMTEGTRCCRQEMYIDLQ GMKWAKNWVLEPPGFLAYECVGTCQQPPEALAFNWPFLGPRQCIASETASLPMIVSIKEGGRTRP

QVVSLPNMRVQKCSCASDGALVPRRLQP

Application Note

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.