

Recombinant Human LEFTY2 Protein, C-His tagged

Cat. No. LEFTY2-002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LEFTY2 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	HEK293
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. The protein may also play a role in endometrial bleeding. Mutations in this gene have been associated with left-right axis malformations, particularly in the heart and lungs. Some types of infertility have been associated with dysregulated expression of this gene in the endometrium. This gene is closely linked to both a related family member and a related pseudogene. This gene encodes multiple isoforms that may undergo similar proteolytic processing.
Molecular Mass	33.7 kDa
AA Sequence	RFSQSFREVAGRFLASEASTHLLVFGMEQRLPPNSELVQAVLRLFQEPVPKAALHR HGRLSPRSAQARVTVEWLRVRDDGSNRTSLIDSRLVSVHESGWKAFDVTEAVNFW QQLSRPRQPLLLQVSVQREHLGPLASGAHKLVRFASQGAPAGLGEPQLELHTLCLR DYGAQGDCDPEAPMTEGTRCCRQEMYIDLQGMKWAKNWWLEPPGFLAYECVGTG

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	QQPPEALAFNWPFLGPRQCIASETASLPMIVSIKEGGRTRPQVVSLPNMRVQKCSC ASDGALVPRRLQPDDDDKHHHHHH
Endotoxin	< 1 EU/μg 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	0.28 mg/mL
Storage Buffer	PBS, pH 7.4

GENE INFORMATION

Gene Name	LEFTY2 left-right determination factor 2 [Homo sapiens (human)]
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

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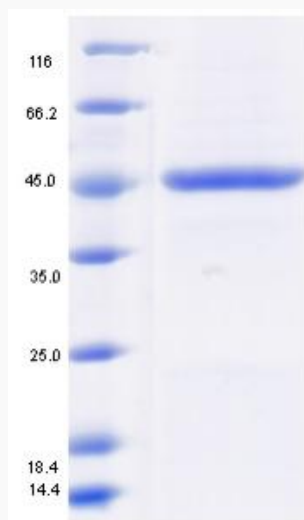
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Protein Refseq NP_003231

MIM 601877

UniProt ID O00292

SDS-PAGE



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