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Recombinant Human LEFTY2 Protein (His Tag)

Catalog No. PKSH032686

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Left-right determination factor 2; Endometrial bleeding-associated factor; Left-right

determination factor A;Protein lefty-2;Protein lefty-A;Transforming growth factor

beta-4;TGF-beta-4;LEFTY2;EBAF;LEFTA;LEFTYA;TGFB4

Species Human

Expression Host HEK293 Cells
Sequence Phe78-Pro366
Accession O00292
Calculated Molecular Weight 39.1 kDa
Observed molecular weight 45-50 kDa

Bioactivity Not validated for activity

Properties

Tag

Purity > 90 % as determined by reducing SDS-PAGE.

N-His

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

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

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Histidine-HCl[®] 4%

Sucrose 24% Mannitol 20.1% Tween 80 2pH6.0.

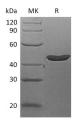
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>





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Background

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- β 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.

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