

Recombinant Rat FSTL1 Protein, His-tagged

Cat. No. Fstl1-379R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Fstl1 (NP_077345.1) (Met1-Ile306) was expressed with a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	Met1-Ile306
Description	Follistatin-related protein 1 (FSTL1) is an extracellular glycoprotein whose functional significance in physiological and pathological processes is incompletely understood. Recently, we have shown that FSTL1 acts as a muscle-derived secreted factor that is up-regulated by Akt activation and ischemic stress and that FSTL1 exerts favorable actions on the heart and vasculature. Here, we sought to identify the receptor that mediates the cellular actions of FSTL1. It contains an FS module, a follistatin-like sequence containing 10 conserved cysteine residues. FSTL1 is thought to be an autoantigen associated with rheumatoid arthritis. DIP2A functions as a novel receptor that mediates the cardiovascular protective effects of FSTL1. Experiment results have provided in vivo and in vitro evidence to demonstrate that Fstl1 modulates lung development and alveolar maturation, in part, through BMP4 signaling.
Predicted N Terminal	Glu 19
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat Fstl1 consists 299 amino acids and predicts a molecular mass of 34 kDa
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted 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	Fstl1 follistatin-like 1 [<i>Rattus norvegicus</i>]
Official Symbol	Fstl1
Synonyms	FSTL1; follistatin-like 1; follistatin-related protein 1; follistatin-like protein 1; Frp; Fstl; MGC93410;
Gene ID	79210
mRNA Refseq	NM_024369
Protein Refseq	NP_077345

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