

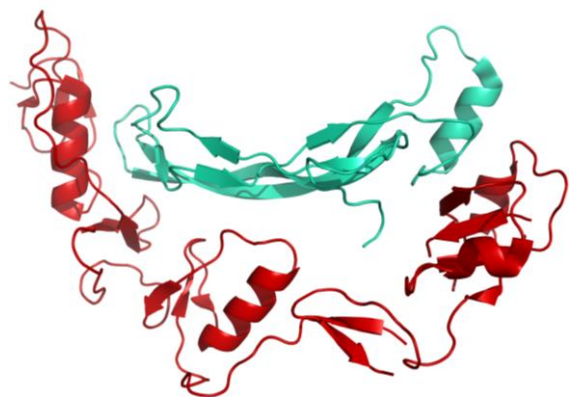
Product Information

Protein:	Follistatin-related protein 3 (~ 27.4 kDa)
Uniprot#:	O95633
Sequence:	MGSGNPAPGGVCWLQQGQEATCSLVLQTDVTRAECASGNIDTAWSNLTHPGNKINLLGF LGLVHCLPCKDSCDGVCEGPGKACRMLGGRPRCECAPDCSGLPARLQVCGSDGATYRDEC ELRAARCRGHPDLSVMYRGRCKRKSCEHVVCPRPQSCVVDQTGSAHCVCRAAPCPVPSSP GQELCGNNNVYISSCHMRQATCFLGRSIGVRHAGSCAGTPEEPPGGESAEEEEENFV
	Methionine at pos. 1 might be present due to cloning constraints, C-terminal His-tag not shown in sequence.
Source:	Recombinantly expressed in HEK293 cells.
Tag(s):	His-Tag, C-terminal
Purification:	Purified by affinity chromatography and subsequent buffer exchange.
Formulation:	PBS; pH 7.4. Liquid, stored and shipped at -80 °C.
Purity:	> 80 % (will be determined by densitometry of Coomassie stained gel, example next page)
Concentration:	Will be determined by BCA-Assay.
Long-term storage:	No recommendations.
Comment:	Protein migrates at higher molecular weight during SDS-PAGE due to posttranslational modifications.

Background Information:

Follistatin-related protein 3 (FSTL3) is a secreted glycoprotein involved in a myriad of intracellular signaling pathways by binding to activin-A and myostatin, members of the TGF- β family, thereby suppressing their cellular activity. Thus, FSTL3 plays a role in health and disease. Analysis of FSTL3 expression can serve as diagnostic biomarker and in-depth knowledge of its actions on intracellular signaling pathways will lead to the development of new therapeutic approaches.

Human follistatin-related protein 3 (FSTL3) is a secreted glycoprotein, which is structurally and functionally related to the activin-binding protein follistatin. It is expressed in various organs and tissues such as placenta, testis, heart and lung and plays an important role in a variety of cellular functions. By binding to activin-A and myostatin, both members of the TGF- β family, FSTL3 antagonizes their cellular activity, thereby regulating physiological processes including cell differentiation and proliferation, metabolic pathways, inflammation and tumor development.



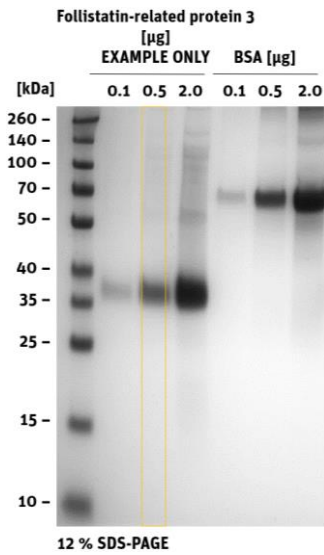
Structural model of Structure of FSTL3 (red) in complex with growth/differentiation factor 8 (green)

Follistatin-related protein 3

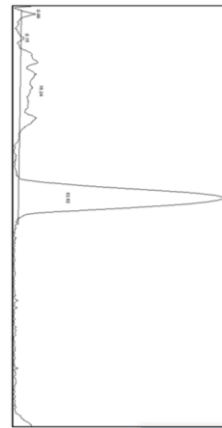
Cat. no. P2020-128

Product Information

Quality Information (provided for each lot):



SDS-PAGE/Coll.Coomassie



	Area	Percent
1	221.314	0.987
2	33.657	0.150
3	3642.066	16.240
4	18529.811	82.623

Histogram (of marked lane in gel picture)