

## FSTL5 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P76351
<b>Synonyms:</b>	Follistatin-related protein 5; Follistatin-like protein 5; KIAA1263
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q8N475 (R21-A847)
<b>Gene ID:</b>	56884
<b>Molecular Weight:</b>	Approximately 95 kDa due to the glycosylation

### PROPERTIES

#### AA Sequence

```

R P T K E G G Y G L   K S Y Q P L M R L R   H K Q E K N Q E S S   R V K G F M I Q D G
P F G S C E N K Y C   G L G R H C V T S R   E T G Q A E C A C M   D L C K R H Y K P V
C G S D G E F Y E N   H C E V H R A A C L   K K Q K I T I V H N   E D C F F K G D K C
K T T E Y S K M K N   M L L D L Q N Q K Y   I M Q E N E N P N G   D D I S R K K L L V
D Q M F K Y F D A D   S N G L V D I N E L   T Q V I K Q E E L G   K D L F D C T L Y V
L L K Y D D F N A D   K H L A L E E F Y R   A F Q V I Q L S L P   E D Q K L S I T A A
T V G Q S A V L S C   A I Q G T L R P P I   I W K R N N I I L N   N L D L E D I N D F
G D D G S L Y I T K   V T T T H V G N Y T   C Y A D G Y E Q V Y   Q T H I F Q V N V P
P V I R V Y P E S Q   A R E P G V T A S L   R C H A E G I P K P   Q L G W L K N G I D
I T P K L S K Q L T   L Q A N G S E V H I   S N V R Y E D T G A   Y T C I A K N E A G
V D E D I S S L F V   E D S A R K T L A N   I L W R E E G L G I   G N M F Y V F Y E D
G I K V I Q P I E C   E F Q R H I K P S E   K L L G F Q D E V C   P K A E G D E V Q R
C V W A S A V N V K   D K F I Y V A Q P T   L D R V L I V D V Q   S Q K V V Q A V S T
D P V P V K L H Y D   K S H D Q V W V L S   W G T L E K T S P T   L Q V I T L A S G N
V P H H T I H T Q P   V G K Q F D R V D D   F F I P T T T L I I   T H M R F G F I L H
K D E A A L Q K I D   L E T M S Y I K T I   N L K D Y K C V P Q   S L A Y T H L G G Y
Y F I G C K P D S T   G A V S P Q V M V D   G V T D S V I G F N   S D V T G T P Y V S
P D G H Y L V S I N   D V K G L V R V Q Y   I T I R G E I Q E A   F D I Y T N L H I S
D L A F Q P S F T E   A H Q Y N I Y G S S   S T Q T D V L F V E   L S S G K V K M I K
S L K E P L K A E E   W P W N R K N R Q I   Q D S G L F G Q Y L   M T P S K D S L F I
L D G R L N K L N C   E I T E V E K G N T   V I W V G D A

```

**Biological Activity** Measured by its ability to inhibit HepG2 human hepatocellular carcinoma cell survival. The ED<sub>50</sub> for this effect is 3.201 μg/mL, corresponding to a specific activity is 312.402 units/mg.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/μg, determined by LAL method.

<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

FSTL5 is an extracellular matrix-secreted protein with a molecular structure similar to follicular listatin (FST). Follistatin-like (FSTL) family proteins are involved in cell migration, proliferation, differentiation and organ development. FST can bind to transforming growth factor  $\beta$  (TGF- $\beta$ ) family activating proteins to promote hepatocyte apoptosis and inhibit hepatocyte proliferation. FST can directly bind to TGF- $\beta$ 3 and inhibit EMT in mammary epithelial cells. Down-regulation of FSTL5 promotes cell proliferation and survival by influencing Wnt/ $\beta$ -catenin signaling pathway in liver cancer and inhibits liver cancer progression by inducing Caspase-dependent apoptosis and regulating Bcl-2 family proteins<sup>[1][2][3]</sup>.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA