

FSTL3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76349
Synonyms:	Follistatin-related protein 3; Follistatin-like protein 3; FLRG
Species:	Mouse
Source:	HEK293
Accession:	Q9EQC7 (V24-V256)
Gene ID:	83554
Molecular Weight:	35-40 kDa.

PROPERTIES

AA Sequence	<pre> V M G S E D S V P G G V C W L Q Q G R E A T C S L V L K T R V S R E E C C A S G N I N T A W S N F T H P G N K I S L L G F L G L V H C L P C K D S C D G V E C G P G K A C R M L G G R P H C E C V P N C E G L P A G F Q V C G S D G A T Y R D E C E L R T A R C R G H P D L R V M Y R G R C Q K S C A Q V V C P R P Q S C L V D Q T G S A H C V V C R A A P C P V P S N P G Q E L C G N N N V T Y I S S C H L R Q A T C F L G R S I G V R H P G I C T G G P K V P A E E E E N F V </pre>
Biological Activity	<p>1. Immobilized Human Activin A, No Tag at 0.2 µg/mL (100 µl/well) on the plate. Dose response curve for Mouse FSTL3, His Tag with the EC₅₀ of >20.1 ng/mL determined by ELISA.</p> <p>2. Measured by its binding ability in a functional ELISA. Immobilized mouse FLRG-His at 10 µg/mL (100 µL/well) can bind biotinylated mouse INHBA, the ED₅₀ for this effect is 21.37 ng/mL.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The FSTL3 Protein, in its secreted form, acts as a binding and antagonizing agent for members of the TGF-beta family, such
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as activin, BMP2, and MSTN. It effectively inhibits cellular signaling induced by activin A, activin B, BMP2, and MSTN, with a higher efficacy observed for activin A. FSTL3 plays a role in bone formation by inhibiting osteoclast differentiation and contributes to hematopoiesis by influencing the differentiation of hemopoietic progenitor cells and enhancing their adhesion to fibronectin. Moreover, it appears to play a role in the adhesion of hematopoietic precursor cells to the bone marrow stroma. The nuclear form of FSTL3 likely participates in transcriptional regulation through its interaction with MLLT10. Additionally, FSTL3 interacts with INHBA, INHBB, FN1, ADAM12, and MSTN, further highlighting its diverse molecular interactions and multifaceted functional roles.

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

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