

Recombinant Mouse FLRG/Fstl3 Protein (His Tag)

Catalog Number: PKSM040903

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

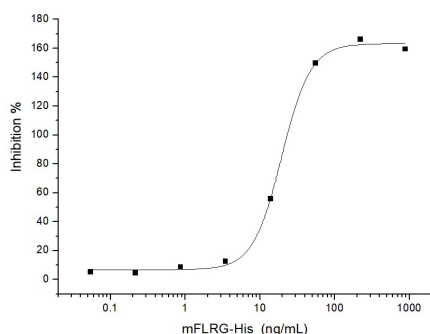
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse FLRG/Fstl3 protein Met 1-Val 256, with an C-terminal His
Calculated MW	26 kDa
Observed MW	35-40 kDa
Accession	NP_113557.1
Bio-activity	1. Immobilized mouse FLRG-His at 10 µg/ml (100 µl/well) can bind biotinylated human INHBA-His with a linear range of 6. 25-50 ng/ml. 2. Immobilized mouse FLRG-His at 10 µg/ml (100 µl/well) can bind biotinylated mouse INHBA-His with a linear range of 6. 25-50 ng/ml. 3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED ₅₀ for this effect is typically 5-25 ng/mL in the presence of 10 ng/mL rhActivin A.

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
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 sterile PBS, pH 7.4 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



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Background

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Follistatin-like 3 (FLRG/Fstl3) is a secreted glycoprotein of the follistatin-module-protein family. It may have a role in leukemogenesis. FLRG/Fstl3 is a recently described member of the FST family having an overall structure and activity profile similar to that of FST, including binding and neutralization of activin. FLRG/Fstl3 is expressed in a wide range of adult tissues, not detected in hematopoietic cells except in patients with a B cell chronic leukemia and a translocation. Isoform 1 or the secreted form is a binding and antagonizing protein for members of the TGF-beta family, such as activin, BMP2 and MSTN. Inhibits activin A-, activin B-, BMP2- and MSDT-induced cellular signaling; more effective on activin A than on activin B. Involved in bone formation; inhibits osteoclast differentiation. Involved in hematopoiesis; involved in differentiation of hematopoietic progenitor cells, increases hematopoietic cell adhesion to fibronectin and seems to contribute to the adhesion of hematopoietic precursor cells to the bone marrow stroma. Isoform 2 of FLRG/Fstl3 or the nuclear form of FLRG/Fstl3 is probably involved in transcriptional regulation via interaction with MLLT10. Modulation of activin and other TGF-beta; superfamily signaling is the primary mechanism of action for both follistatin (FS) and FS-like 3 (FSTL-3). FLRG/Fstl3 is likely to be a local regulator of activin action in gonadal development and gametogenesis and, further, that activin appears to have important actions in gonadal development and function that are critical for normal reproduction.

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