

Toutes les
photos (1)

Documents



FDS



COO/COA



Fiche des
caractéristiques

SRP3045 ▶ Sigma-Aldrich®

Follistatin human

★★★★★ (0)

recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

Synonyme(s):

FS, activins-binding protein

NACRES:

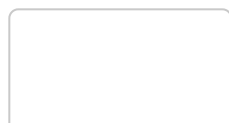
NA.32

Référence	Conditionnement	Disponibilité	Prix	Quantité
SRP3045-20UG	20 µG	Généralement expédié sous 2 semaines.	318,00 €	- + 

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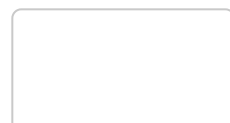
PRODUITS RECOMMANDÉS



Sigma-Aldrich

F1175

Follistatin 300 human



Sigma-Aldrich

M3064

Myostatin human



≥90% (SDS-PAGE), recombinant, expressed in *Sf21* cells, lyophilized powder, suitable for cell culture

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recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

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PROPRIÉTÉS

Source biologique	human
Recombinant	expressed in <i>E. coli</i>
Essai/Dosage	≥98% (HPLC) ≥98% (SDS-PAGE)
Forme	lyophilized
Puissance	0.1-0.4 µg/mL
Poids mol.	31.5 kDa
Conditionnement	pkg of 20 µg
technique(s)	cell culture mammalian: suitable
Impuretés	<1.0 EU/µg endotoxin, tested
Couleur	white to off-white

N° d'accès UniProt

P19883

Expédié(e) dans

wet ice

Temp. de stockage

-20°C

Gene Information

human ... **FST(10468)**

DESCRIPTION

Description générale

Follistatin is a secreted protein that binds to ligands of the TGF (transforming growth factor)- β family and regulates their activity by inhibiting their access to signaling receptors. Follistatin is expressed in the pituitary, ovaries, decidual cells of the endometrium, and in some other tissues. The gene is mapped to human chromosome 5q11.2. Recombinant human Follistatin is a 31.5kDa protein containing 288 amino acids. Its primary structure contains three cysteine-rich domains (called FS domains), each followed by a protease-inhibitory kazal domain.

Application

Follistatin human has been used to suppress myostatin signaling. It has also been used as an inhibitor of activin A.

Actions biochimiques/physiologiques

Follistatin is a multifunctional protein. It was originally discovered as activin antagonists whose activity suppresses expression and secretion of the pituitary hormone FSH (follicle stimulating hormone). In addition to being a natural antagonist, follistatin can inhibit the activity of other TGF (transforming growth factor)- β ligands including BMP (bone morphogenetic protein)-2,-4,-6,-7, Myostatin, GDF-11 (growth differentiation factor 11), and TGF- β 1. In gonads, it is responsible for oocyte competence and embryo development. In the pituitary gland, it causes cyclic changes in FSH production in the estrous cycle. Follistatin also participates in

bone metabolism. It controls inflammation, fibrosis and tissue repair. Levels of plasma follistatin increases in polycystic ovary syndrome and type 2 diabetes. Follistatin might also be involved in tumor progression, including apoptosis, angiogenesis, and metastasis.

Séquence

GNCWLRQAKN GRCQVLYKTE LSKEECCSTG RLTSWTEED VNDNTLFKWM IFNGGAPNCI PCKETCENV D CGPGKKCRMN
KKNKPRCVCA PDCSNITWKG PVCGLDGKTY RNECALLKAR CKEQPELEVQ YQGRCKKTCR DVFCPGSSTC VVDQTNNA YC
VTCNRICPEP ASSEQYLCGN DGVTYSSACH LRKATCLLGR SIGLAYEGKC IKAKSCEDIQ CTGGKKCLWD FKVGRGRCSL
CDELCPDSKS DEPVASDNA TYASECAMKE AACSSGVLE VKHSGSCN

Forme physique

Lyophilized from 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07

Mention d'avertissement

Warning

Mentions de danger

H315 - H319 - H335

Conseils de prudence

P261 - P264 - P271 - P280 -
P302 + P352 - P305 + P351 +
P338

Classification des risques

Organes cibles

Respiratory system

Code de la classe de stockage

WGK

WGK 3

Eye Irrit. 2 - Skin Irrit. 2 -
STOT SE 3

13 - Non Combustible Solids

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

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e.g. 023J5431

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Rechercher

ARTICLES REVUS PAR DES PAIRS

Myostatin knockout drives browning of white adipose tissue through activating the AMPK-PGC1 α -Fndc5 pathway in muscle.

Shan T, et al.

FASEB Journal, 27, 1981-1989 (2013)

Regulation of ovarian function by the TGF- β superfamily and follistatin.

Lin SY, et al.

Reproduction (Cambridge, England), 126, 133-148 (2003)

Recombinant expression of human follistatin with 315 and 288 amino acids: chemical and biological comparison with native porcine follistatin.

S Inouye et al.

Endocrinology, 129(2), 815-822 (1991-08-01)

Follistatin is a glycosylated monomeric protein originally isolated from ovarian follicular fluid based on its ability to specifically inhibit pituitary FSH release. To further explore the physiological role of follistatin, we have expressed recombinant human follistatins with 315 (rhFS-315) and

Inhibins, activins, and follistatins: the saga continues.

L V DePaolo

Proceedings of the Society for Experimental Biology and Medicine. Society for Experimental Biology and Medicine (New York, N.Y.), 214(4), 328-339 (1997-04-01)

The effect of the DcpS inhibitor D156844 on the protective action of follistatin in mice with spinal muscular atrophy.

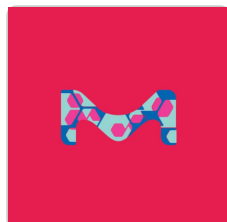
Ashlee W Harris et al.

Neuromuscular disorders : NMD, 25(9), 699-705 (2015-06-10)

Spinal muscular atrophy (SMA), a leading genetic cause of pediatric death in the world, is an early-onset disease affecting the motor neurons in the anterior horn of the spinal cord. This degeneration of motor neurons leads to loss of muscle

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PRODUITS CONSULTÉS RÉCEMMENT



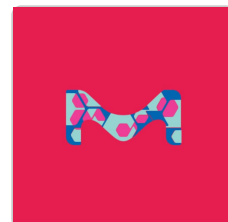
Sigma-Aldrich

SRP3043

FGF-basic human

Animal-component free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell...

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Sigma-Aldrich

SRP3027

EGF human

Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell...

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Évaluations



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science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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