

Active Recombinant Human SEMA3F protein, His-tagged

Cat. No. SEMA3F-1913H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human SEMA3F protein(Q13275)(350-483 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	350-483 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Semaphorin-3F (SEMA3F) is a member of semaphorins family. All the family members have a secretion signal, a 500-amino acid sema domain, and 16 conserved cysteine residues. Semaphorins not only guide axons in development, but also have major roles in immune function (classes 4, 6, and 7) and the development of bones. Class 3 semaphorins are one of the most versatile semaphorin classes, in which Sema3a is the most studied. Besides, SEMA3F is deleted or downregulated in many metastatic tumors. To test the effect of SEMA3F on inhibit cell proliferation, human lung carcinoma cells A549 were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM prior to the addition of various concentrations of recombinant human SEMA3F. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell

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Counting Kit-8 (CCK-8). Briefly, 10 μ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of A549 cells after incubation with SEMA3F for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 assay after incubation with recombinant SEMA3F for 48h. The result was shown. It was obvious that SEMA3F significantly increased cell viability of A549 cells. (A) A549 cells cultured in DMEM, stimulated with 100ng/mL SEMA3F for 48h; (B) Unstimulated A549 cells cultured in DMEM for 48h.

Molecular Mass	16.6kDa
Endotoxin	<1.0EU per 1 μ g (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SEMA3F sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F [Homo sapiens]
Official Symbol	SEMA3F
Synonyms	SEMA3F; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F; semaphorin-3F; sema IV; Sema4; SEMAK; sema III/F; semaphorin IV; semaphorin III/F; sema domain, immunoglobulin domain (Ig), short basic domain,

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secreted, 3F; SEMA4; SEMA-IV;

Gene ID 6405

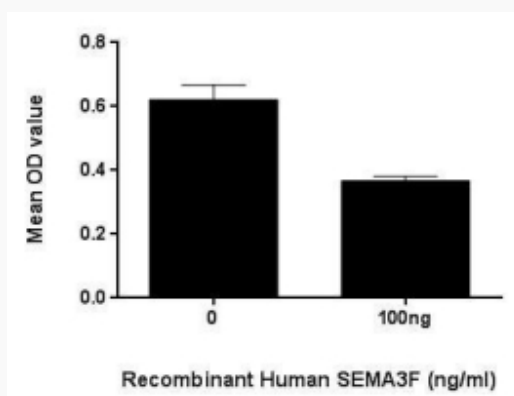
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Protein Refseq NP_004177

MIM 601124

UniProt ID Q13275

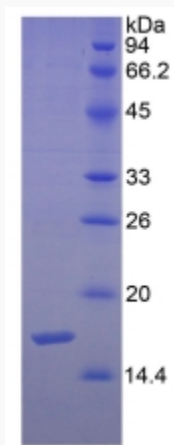
Activity



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