

Active Recombinant Human SEMA3E Protein, His-tagged

Cat. No. SEMA3E-932H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMA3E (Accession # O15041) Thr25-Ser775, fused with an N-terminal 10-His tag, was produced in Mouse myeloma cell line, NS0-derived.
Species	Human
Source	Mammalian Cells
ProteinLength	Thr25-Ser775
Predicted N Terminal	His
Form	Lyophilized from a 0.2 µ filtered solution in PBS and Tween® 20.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human Plexin D1 is coated at 5 µg/mL, Recombinant Human Semaphorin 3E binds with an apparent KD <2 nM. Measured by its ability to inhibit the proliferation of HUVEC human umbilical vein endothelial cells. Moriya, J. et al. (2010) Circ. Res. 106:391. The ED50 for this effect is typically 0.3-1.5 µg/mL.
Molecular Mass	Recombinant Human SEMA3E, His-tagged has a calculated MW of 87.9 kDa (monomer). In SDS-PAGE migrates as 90 kDa, 66 kDa and 25 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
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GENE INFORMATION

Gene Name	SEMA3E sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E [Homo sapiens]
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Official Symbol	SEMA3E
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Synonyms	SEMA3E; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E; SEMAH; semaphorin-3E; coll 5; KIAA0331; M sema H; M SemaK; coll-5; M-SEMAH; M-SemaK;
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Gene ID	9723
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mRNA Refseq	NM_001178129
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Protein Refseq	NP_001171600
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MIM	608166
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UniProt ID	O15041
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Chromosome Location	7q21.11
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