



Human SEMA3F peptide (DAG-P1932)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The semaphorins are a family of proteins that are involved in signaling. All the family members have a secretion signal, a 500-amino acid sema domain, and 16 conserved cysteine residues (Kolodkin et al., 1993 [PubMed 8269517]). Sequence comparisons have grouped the secreted semaphorins into 3 general classes, all of which also have an immunoglobulin domain. The semaphorin III family, consisting of human semaphorin III (SEMA3A; MIM 603961), chicken collapsin, and mouse semaphorins A, D, and E, all have a basic domain at the C terminus. Chicken collapsin contributes to path finding by axons during development by inhibiting extension of growth cones (Luo et al., 1993 [PubMed 8402908]) through an interaction with a collapsin response mediator protein of relative molecular mass 62K (CRMP62) (Goshima et al., 1995 [PubMed 7637782]), a putative homolog of an axonal guidance associated UNC33 gene product (MIM 601168). SEMA3F is a secreted member of the semaphorin III family.[supplied by OMIM, Mar 2008]

Specificity

Expressed abundantly but differentially in a variety of neural and nonneural tissues. There is high expression in mammary gland, kidney, fetal brain, and lung and lower expression in heart and liver.

Conjugate

Unconjugated

Sequence Similarities

Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Sema domain.

Format

Liquid

Preservative

None

Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SEMA3F sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F [Homo sapiens (human)]
Official Symbol	SEMA3F
Synonyms	SEMA3F; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F; SEMA4; SEMAK; SEMA-IV; semaphorin-3F; sema IV; sema III/F; semaphorin IV; semaphorin III/F; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, 3F;
Entrez Gene ID	6405
mRNA Refseq	NM_004186.3
Protein Refseq	NP_004177.3
UniProt ID	Q13275
Chromosome Location	3p21.3
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;
Function	chemorepellent activity; receptor activity;