

Recombinant Mouse Sema4d Protein, His&GST-tagged

Cat. No. Sema4d-2050M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Sema4d Protein (Ala24-Arg188) with N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ala24-Arg188
Description	Enables semaphorin receptor binding activity. Involved in several processes, including negative regulation of osteoblast differentiation; positive regulation of inhibitory synapse assembly; and regulation of phosphate metabolic process. Acts upstream of or within positive regulation of axonogenesis. Located in extracellular space. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; hemolymphoid system; and respiratory system. Orthologous to human SEMA4D (semaphorin 4D).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.9 kDa Accurate Molecular Mass: 26 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	Sema4d sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [Mus musculus (house mouse)]
Official Symbol	Sema4d
Synonyms	SEMA4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D; semaphorin-4D; sema J; M-sema G; semaphorin H; semaphorin-J; semaphorin-C-like 2; CD100; Semaj; Semcl2; coll-4; Semacl2;
Gene ID	20354
mRNA Refseq	NM_013660
Protein Refseq	NP_038688
UniProt ID	O09126

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