

## 32-7840: Recombinant Human Semaphorin-4B/SEMA4B (C-6His)

**Gene :** SEMA4B  
**Gene ID :** 10509  
**Uniprot ID :** Q9NPR2

### Description

Source: Human Cells.  
MW :75.7kD.

Recombinant Human Semaphorin 4B is produced by our Mammalian expression system and the target gene encoding Leu39-Glu712 is expressed with a 6His tag at the C-terminus. The class 4 semaphorins are integral membrane proteins that are widely expressed throughout the nervous system. SEMA4B is a single-pass type I membrane protein and contains one Ig-like C2-type (immunoglobulin-like) domain, one PSI domain and one Sema domain. Human SEMA4B is expressed in neurons. SEMA4B inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. SEMA4B negatively regulates basophil-mediated Th2 and humoral memory responses.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** LSPRISLPLGSEERPFLRFEAEHISNYTALLSRDGRTLYVGAREALFALSSNLSFLPGGEYQELLWGADA EKKQQ  
CSFKGKDPQRDCQNYIKILLPLSGSHLFTCGTAAFSMPCTYINMENFTLARDEKGNVLLEDGKGRCPDPNFKS  
TALVVDGELYTGTVSSFOGNDPAISRSQSLRPTKTESSLNWLQDPAFVASAYIPESLGSLOGDDDKIYFFFSETG  
QEFEFFENTIVSRIARICKGDEGGERVLQQRWTSFLKAQLLCSRPDGFPFNVLQDVFTLSPSPQDWRDTLFG  
VFTSQWHRGTTEGSAVCVFTMKDVQRVFSGLYKEVNRETQQWYTVTHPVTPRPGACITNSARERKINSSQL  
PDRVLNFKDHFMDGQVRSRMLLLQPARYQRVAVHRVPGLHHTYDVLFLGTGDGRLHKAVSVGPRVHIIIE  
LQIFSSGQPVQNLLLDTHRGLLYAASHSGVVQVPMANCSLYRSCGDCLLARDPYCAWSGSSCKHVS LYQPQLA  
TRPWIQDIEGASAKDLCSASSVSPSFVPTGEKPCEQVQFQPNVTNLACPLLSNLATRLWLRNGAPVNASASC  
HVLPTGDL LLVGTQQLGEFQCWSLEEGFQQLVASYCPEVEDGVADQTDEGGSVPIISTSRV SAPAGGKAS  
WGADRSYWKEVDHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.