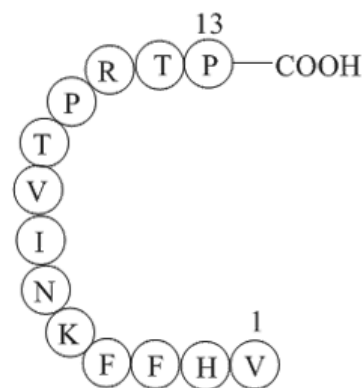


Product Data Sheet

Chemical Properties

Product Name:	Myelin Basic Protein (87-99)
Cas No.:	118506-26-6
M.Wt:	1555.8
Formula:	C74H114N20O17
Synonyms:	Val-His-Phe-Phe-Lys-Asn-Ile-Val -Thr-Pro-Arg-Thr-Pro



Chemical Name:	Myelin Basic Protein (87-99)
Canonical SMILES:	<chem>CCC(C)C(C(=O)NC(C(C)C)C(=O)NC(C(C)O)C(=O)N1CCCC1C(=O)NC(CCCN=C(N)N)C(=O)NC(C(C)O)C(=O)N2CCCC2C(=O)O)NC(=O)C(CC(=O)N)NC(=O)C(CCCCN)NC(=O)C(CC3=CC=CC=C3)NC(=O)C(CC4=CC=CC=C4)NC(=O)C(CC5=CN=CN5)NC(=O)C(C(C)C)N</chem>
Solubility:	≥77.8 mg/mL in DMSO, ≥15.97 mg/mL in EtOH with ultrasonic and warming, ≥50.7 mg/mL in H ₂ O
Storage:	Store at -20°C
General tips:	For obtaining a higher solubility, please warm the tube at 37° C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20° C for several months.
Shopping Condition:	Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets :	Neuroscience
Pathways:	Neuroscience Peptides
Description:	

The basic protein is a major structural protein of the central nervous system myelin in which it constitutes 30% of the total protein.(1)

T lymphocyte cell lines selected with whole MBP typically recognize only 1-3 immunodominant epitopes (Offner et al., 1987, 1988; Trotter et al., 1987; Bourdette et al., 1988; McCarron and McFarlin, 1988) and these immunodominant MBP epitopes frequently are encephalitogenic (Vandenbark et al., 1985b, 1989; Hashim et al., 1991). Thus, the identification of immunodominant MBP epitopes is likely to provide an in vitro method of identifying unrecognized encephalitogenic epitopes of MBP. (2)

Although the cause of multiple sclerosis (MS) is not known, a T cell-mediated autoimmune process has been postulated. Myelin basic protein (MBP) is a potential target antigen because it induces experimental allergic encephalomyelitis (EAE) in susceptible animals. Encephalitogenic epitopes of MBP differ among susceptible strains and correlate with the MHC class II genotype. (3)

Reference:

1. EYLAR, E. H., in L.Rowland (Editor), *Immunologic disorders of the nervous system*, Academic Press, New York, 1971, Chapter 5.
2. Jones et al (1992) the synthetic 87-99 peptide of myelin basic protein is encephalitogenic in Buffalo rats. *J.Neuroimmunol.* 37 203
3. Fritz, R., and D.E. McFarlin . 1989. Encephalitogenic epitopes 10. Richert, J., E.D. Robinson, G.E . Deibler, R.E. Martenson, of myelin basic protein. *Chem. Immunol.* 46:101.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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