
Product Data Sheet

Product Name: Myelin Basic Protein (87-99)
 Cat. No.: GP10130

Chemical Properties

Cas. No. 118506-26-6

Chemical Name Myelin Basic Protein (87-99)

SMILES 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)C1

Formula $C_{74}H_{114}N_{20}O_{17}$

Solubility ≥ 77.8 mg/mL in DMSO, ≥ 15.97 mg/mL in EtOH with ultrasonic and warming, ≥ 50.7 mg/mL in Water

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

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

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; Bourdctte 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)

References:

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: Product has not been fully validated for medical applications. For research use only.

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