

MOG peptide (35-55), mouse, rat acetate

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

Store at low temperature, Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.

Myelin
 Oligodendrocyte
 Glycoprotein
 Peptide (35-55),
 mouse, rat

Biological Description

Description	MOG peptide (35-55), mouse, rat acetate is a minor component of central nervous system myelin sheaths. It possesses encephalitis-inducing activity, capable of stimulating CD4 ⁺ T cell proliferation and Th1-type immune responses, thereby triggering relapsing-remitting demyelinating diseases. It is commonly used to establish experimental autoimmune encephalomyelitis (EAE) models.
Targets(IC50)	Others
In vitro	Methods: T cells were incubated with mouse and rat myelin oligodendrocyte glycoprotein (MOG peptide (35-55), mouse, rat acetate) at concentrations ranging from 0 to 50 µg/mL for 72 hours. Results: T cells from HLA-DR2 transgenic mice immunized with the mouse-derived MOG peptide (35-55), mouse, rat acetate peptide segment exhibited strong proliferative responses to the mouse-derived MOG peptide (35-55), mouse, rat acetate peptide segment. [1]
In vivo	Methods: HLA-DR2 transgenic mice received a single intraperitoneal injection of MOG peptide (35-55) in mouse/rat acetate (200 µg in 0.2 mL) for 38 consecutive days. Results: Encephalitis characteristics were observed in HLA-DR2 (DRB1*1501) mice [1] Methods: EAE models were induced in NOD/Lt and C57BL/6 mice via a single subcutaneous injection of MOG peptide (35-55), mouse, rat acetate emulsified with complete Freund's adjuvant. Each mouse received 200-300 µg of the peptide in emulsion. Results: Following a single injection of the MOG peptide (35-55), mouse, rat acetate, NOD/Lt mice developed a relapsing-remitting disease course, characterized by partial recovery after symptom onset followed by recurrence. C57BL/6 mice developed a chronic progressive paralytic disease with continuous symptom progression and no significant remission. [2]

Solubility Information

Solubility	H2O: 90 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

- Rich C, et al. Myelin oligodendrocyte glycoprotein-35-55 peptide induces severe chronic experimental autoimmune encephalomyelitis in HLA-DR2-transgenic mice. *Eur J Immunol.* 2004 May;34(5):1251-61.
- Slavin A, Ewing C, Liu J, Ichikawa M, Slavin J, Bernard CC. Induction of a multiple sclerosis-like disease in mice with an immunodominant epitope of myelin oligodendrocyte glycoprotein. *Autoimmunity.* 1998;28(2):109-20.
- Giralt M, et al. Active Induction of Experimental Autoimmune Encephalomyelitis (EAE) with MOG35-55 in the Mouse. *Methods Mol Biol.* 2018;1791:227-232.

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