

MOG (35-55)

Chemical Properties

CAS No.:	149635-73-4
Formula:	C118H177N35O29S
Molecular Weight:	2581.95
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	MOG (35-55) is a truncated peptide derived from the human Myelin Oligodendrocyte Glycoprotein (MOG).
In vitro	CD8CD3 and CD4CD3 cells were 86% and 94% pure of total CD3 cells after CD8/CD4 bead enrichment, respectively. These cells were stimulated by MOG35-55 peptide and applied to proliferation assays. Although the CD8 T cells had a generally lower response to MOG35-55 than CD4 T cells, the response of CD8 T cells was not always dependent on CD4. CD8 T cell secreted less IFN- γ and IL-4 compared with CD4 T cells[1].
In vivo	EAE was induced in wildtype B6 naïve mice by adoptive transfer of MOG35-55-specific T cells from B6 active-induced EAE (aEAE) mice. A similar EAE score and slight inflammation and demyelination were found in naïve B6 mice after transferring of CD8 T cells from immunized B6 mice compared with transfer of CD4 T cells[1].

Solubility Information

Solubility	Water: Insoluble DMSO: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.387 mL	1.937 mL	3.873 mL
5 mM	0.077 mL	0.387 mL	0.775 mL
10 mM	0.039 mL	0.194 mL	0.387 mL
50 mM	0.008 mL	0.039 mL	0.077 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Peng Y, Zhu FZ, Chen ZX, et al. Characterization of myelin oligodendrocyte glycoprotein (MOG)35-55-specific CD8+ T cells in experimental autoimmune encephalomyelitis[J]. Chin Med J (Engl). 2019 Dec 20;132(24):2934-2940.
2. Ichikawa M, Johns T G, Liu J, et al. Analysis of the fine B cell specificity during the chronic/relapsing course of a multiple sclerosis-like disease in Lewis rats injected with the encephalitogenic myelin oligodendrocyte glycoprotein peptide 35-55[J]. Journal of Immunology, 1996, 157(2):919.

[Inhibitors](#) · [Natural Compounds](#) · [Compound Libraries](#)

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel: 781-999-4286

E-mail: info@targetmol.com

Address: 36 Washington Street, Wellesley Hills, MA 02481