



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Myelin Basic Protein (85-99) Peptide Antagonist (trifluoroacetate salt)

Item No. 36964

**Formal Name:** L- $\alpha$ -glutamyl-L-lysyl-L-prolyl-L-lysyl-L-valyl-L- $\alpha$ -glutamyl-L-alanyl-L-tyrosyl-L-lysyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-prolyl-L-alanine, trifluoroacetate salt  
**Synonyms:** EKPKEAYKAAAAPA-OH, MBP (85-99) Peptide Antagonist  
**MF:**  $C_{70}H_{114}N_{18}O_{21} \cdot XCF_3COOH$   
**FW:** 1,543.8  
**Purity:**  $\geq 98\%$   
**Supplied as:** A solid  
**Storage:**  $-20^\circ C$   
**Stability:**  $\geq 4$  years

H—Glu—Lys—Pro—Lys—Val—Glu—Ala—Tyr—Lys—Ala—Ala—Ala—Ala—Pro—Ala—OH  
• XCF<sub>3</sub>COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Myelin basic protein (MBP) (85-99) peptide antagonist (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the MBP (85-99) peptide antagonist (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. MBP (85-99) peptide antagonist (trifluoroacetate salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of MBP (85-99) peptide antagonist (trifluoroacetate salt) in these solvents is approximately 3 and 1 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of MBP (85-99) peptide antagonist (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of MBP (85-99) peptide antagonist (trifluoroacetate salt) in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

MBP (85-99) peptide antagonist is a synthetic peptide that corresponds to residues 85-99 of human MBP and an antagonist of MBP (85-99) with roles in antigen presentation and the autoimmune response.<sup>1</sup> It inhibits the binding of human MBP (85-99) to human HLA-DR2 in a concentration-dependent manner. MBP (85-99) peptide antagonist inhibits the production of IL-2 in T cell hybridoma cells expressing an MBP (85-99)-specific T cell receptor derived from a patient with multiple sclerosis. It also delays MBP (85-99)-induced experimental autoimmune encephalomyelitis (EAE) onset and reduces EAE symptom severity in double-transgenic humanized mice expressing human HLA-DR2 and MBP (85-99)-specific T cell receptor antigen in a model of multiple sclerosis when administered at a dose of 100  $\mu g$ /animal.

### Reference

1. Stern, J.N.H., Illés, Z., Reddy, J., *et al.* Peptide 15-mers of defined sequence that substitute for random amino acid copolymers in amelioration of experimental autoimmune encephalomyelitis. *Proc. Natl. Acad. Sci. USA* **102**(5), 1620-1625 (2005).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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