

PLP [139-151] Peptide

Subcategory: Synthetic Peptide

Cat. No.: 350349

Unit: 1 mg

Description:

The PLP [139-151] peptide from the myelin proteolipid protein (PLP) has been found to be highly immunogenic in inducing experimental allergic encephalomyelitis (EAE) in SJC/J (H-2s) mice as part of an autoimmune response. The sequence is derived from PLP with a cysteine residue replaced by a serine. The peptide is conserved in mouse, rat, monkey, dog, pig, bovine and found to be similar in chicken, frog, turtle except for the first two residues. Mouse T-cell clones that are reactive with the peptide have been developed, and variations on the different clones' ability to elicit the immune response have been used to understand mechanisms of T-cell function. Later work has devised analogs of this peptide that block the immune response in vitro and in vivo, with implications for the regulation of autoimmune diseases.

Format: Each vial contains 1 mg of lyophilized solid packaged under an inert gas and supplied as a trifluoroacetate salt.

Alternate Names: Myelin Proteolipid protein; PLP; Lipophilin; PLP1; PLP

Accession No.: P60201

MW: 1521.7 g/mol

Sequence: Human: H-His-Ser-Leu-Gly-Lys-Trp-Leu-Gly-His-Pro-Asp-Lys-Phe-OH or H-HSLGKWLGHDPKF-OH

Composition: C72H104N20O17

Purity: Purity > 95% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, aliquot and store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.