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(54) **Title**: COMPOSITION FOR TREATMENT OF MULTIPLE SCLEROSIS

Primary structure (amino acid sequence) of human MBP (SEQ ID NO: 1)

1 ASQKRPSQRH GSKYLATAST MDHARHGFLP RHRDTGILDS IGRFFGGDRG

APKRGSGKDS 60

61 HHPARTAHYG SLPQKSHGRT QDENPVVHFF KNIVTPRTPP PSQGKGRGLS

LSRFSWGAEG 120

121 QRPGFGYGGR ASDYKSAHKG FKGVDAQGTL SKIFKLGGRD SRSGSPMARR 170

SEQUENCE ID 2:

GGDRGAPKRGSGKDSHH

SEQUENCE ID 3:

GFGYGGRASDYKSAHK

SEQUENCE ID 4:

QGTLSKIFKLGGRDSRSGSPMARR

Fig. 1

(57) **Abstract**: Novel oligopeptides, combinations thereof and fusion proteins composed of the above-mentioned oligopeptides are disclosed. Oligopeptides are homologous in amino acid sequence to the selected parts of the amino acid sequence of human myelin basic protein (MBP) and are capable to ameliorate the progression of multiple sclerosis by means of binding to and inactivation of epitope-specific anti MBP auto antibodies (ESAMBPCAA) involved into binding and catalytic degradation of MBP in course of progression of Multiple Sclerosis.

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