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(54) Title: CYCLIC PROSAPOSIN-DERIVED PEPTIDES AND USES THEREOF

(57) Abstract

Cyclic neurotrophic and analgesic peptides derived from the active region of prosaposin having the consensus sequence $X_1X_2X_3NNX_4TX_5X_6X_7X_8$ (SEQ ID NO:4), wherein X_1 is a hydrophobic amino acid (leucine, isoleucine, valine, tyrosine, tryptophan, phenylalanine or methionine); X_2 is a hydrophobic amino acid, X_3 is aspartic acid, glutamic acid, lysine or arginine; N is asparagine, X_4 is any amino acid; T is threonine; X_5 is glutamic acid or aspartic acid; X_6 is any amino acid, X_7 is a hydrophobic amino acid; and X_8 is a hydrophobic amino acid. The peptides are useful in the promotion of neural outgrowth, prevention of cell death, promotion of myelination, treatment of neurodegenerative disorders and treatment and prevention of neuropathic pain.