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(54) Title: COMPOUND FOR THE PREVENTION OR TREATMENT OF AUTOANTIBODY-MEDIATED CONDITIONS

(57) Abstract: The present invention provides a compound for the sequestration of undesirable antibodies associated with an autoantibody-mediated condition, such as Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS), postural orthostatic tachycardia syndrome (POTS), Autoimmune Autonomic Ganglionopathy (AAG), Idiopathic Dilated Cardiomyopathy (IDC), Chronic Chagas heart disease (cChHD) and other neurological, neuromuscular and neuropsychiatric disorders, in particular autoimmune channelopathies. The compound comprises a biopolymer scaffold and at least two peptides with a sequence length of 6-13 amino acid, wherein each of the peptides independently comprises a 6-amino-acid fragment of an amino-acid sequence of a human neuroreceptor, optionally wherein at most three, preferably at most two, more preferably at most one amino acid is independently substituted by any other amino acid. Also provided are pharmaceutical compositions comprising the compound, as well as methods of ameliorating or treating the conditions mentioned above.



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