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(54) **Title**: USE OF SEMAPHORIN-4D BINDING MOLECULES FOR MODULATION OF BLOOD BRAIN BARRIER PERMEABILITY

(57) **Abstract**: Provided herein are methods for decreasing blood-brain barrier permeability in a subject with neuroinflammatory disorder, comprising administering to the subject an effective amount of an isolated binding molecule which specifically binds to semaphorin-4D (SEMA4D) or to its high affinity Plexin-B1 receptor.