Abstract

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[Problem] Provided is a compound which is useful as a pharmaceutical composition for preventing and/or treating schizophrenia, cognitive impairment associated with schizophrenia (CIAS), cognitive impairment, fragile X syndrome, autism spectrum disorder, spasticity, anxiety disorder, substance addiction, pain, fibromyalgia, Charcot-Marie-Tooth disease, or the like.

[Means for Solution] The present inventors have studied that a pharmaceutical composition for preventing and/or treating schizophrenia, cognitive impairment associated with schizophrenia (CIAS), cognitive impairment, fragile X syndrome, autism spectrum disorder, spasticity, anxiety disorder, substance addiction, pain, fibromyalgia, Charcot-Marie-Tooth disease, or the like, which has a positive allosteric modulator (PAM action) of $GABA_B$, and have found that a sulfur-containing bicyclic compound is a PAM of a $GABA_B$ receptor, thereby completing the present invention. The sulfur-containing bicyclic compound of the present invention has a PAM action of $GABA_B$, and can be used as an agent for preventing and/or treating schizophrenia, CIAS, cognitive impairment, fragile X syndrome, autism spectrum disorder, spasticity, anxiety disorder, substance addiction, pain, fibromyalgia, or Charcot-Marie-Tooth disease.

[Selected Figure] Nil