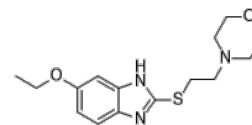


Product Name : Afobazole
Cat. No. : PC-24025
CAS No. : 173352-21-1
Molecular Formula : C₁₅H₂₁N₃O₂S
Molecular Weight : 307.41
Target : Sigma Receptor
Solubility : 10 mM in DMSO



Biological Activity

Afobazole (Fabomotizole, CM346) is a compound with anxiolytic and neuroprotective activities, is an agonist of sigma1-receptor (S1R, Ki=5.9 uM).

Afobazole inhibits migration of microglial cells in response to ATP and UTP chemoattraction in a concentration-dependent manner.

Afobazole decreases intracellular calcium elevation produced by focal application of ATP and UTP in isolated microglial cells.

Afobazole acts via σ receptors to decrease microglial response to ATP and provides cytoprotection during and after ischemia.

Afobazole modulates neuronal response to ischemia and acidosis via activation of sigma-1 receptors.

References

Seredenin SB, et al. Bull Exp Biol Med. 2009 Jul;148(1):42-4.

Kryzhanovskiy SA, et al. Bull Exp Biol Med. 2011 Jan;150(3):316-9.

Cuevas J, et al. J Pharmacol Exp Ther. 2011 Oct;339(1):161-72.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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