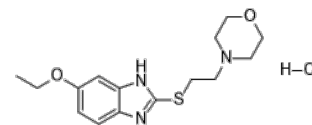


**Product Name** : Fabomotizole hydrochloride  
**Cat. No.** : PC-24026  
**CAS No.** : 173352-39-1  
**Molecular Formula** : C<sub>15</sub>H<sub>22</sub>ClN<sub>3</sub>O<sub>2</sub>S  
**Molecular Weight** : 343.87  
**Target** : Sigma Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Fabomotizole hydrochloride (Afobazole, 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  $\sigma$  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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