

Product Data Sheet

Product Name: Azumolene

Cat. No.: GC61493

Chemical Properties

Cas. No. 64748-79-4

SMILES O=C1NC(CN1/N=C/C2=NC=C(C3=CC=C(Br)C=C3)O2)=O

Formula $C_{13}H_9BrN_4O_3$ M.Wt 349.14

Solubility DMSO: 13.89 mg/mL (39.78 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

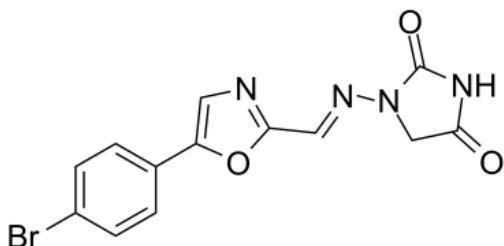
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

Azumolene (EU4093 free base), a Dantrolene analog, is a muscle relaxant. Azumolene is a ryanodine receptor (RyR) modulator and inhibits the calcium-release through ryanodine receptor. Azumolene can be used for malignant hyperthermia research[1][2].

Pretreatment with 20 μ M Azumolene for 1-2 min inhibits SOCE activated by subsequent addition of caffeine and ryanodine to promote RyR-dependent sarcoplasmic reticulum Ca^{2+} store depletion in mouse myotubes and adult muscle fibers[2].

The effect of Azumolene (EU4093) on the twitch of the intact rat soleus preparation is nearly maximal at a dose of 20 mg/kg. This dose of Azumolene reduces the amplitude of the twitch to 31.9% of the

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control value. The contraction of intrafusal muscle as measured by the response of spindle afferent discharge is also reduced by Azumolene[1].

[1]. G C Leslie, et al. The effect of EU4093 (azumolene sodium) on the contraction of intrafusal muscle in the soleus muscle of the anaesthetized rat. Br J Pharmacol. 1989 Aug;97(4):1151-6. [2]. Viktor Yarotsky, et al. Accelerated activation of SOCE current in myotubes from two mouse models of anesthetic- and heat-induced sudden death. PLoS One. 2013 Oct 15;8(10):e77633.

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