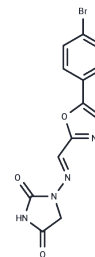


Azumolene

Chemical Properties

CAS No. :	64748-79-4
Formula:	C13H9BrN4O3
Molecular Weight:	349.14
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Azumolene (EU4093 free base)
Targets(IC50)	Calcium Channel
In vivo	Azumolene is a direct acting, skeletal muscle relaxant with structural similarities to dantrolene sodium in that the para-nitro phenyl group of dantrolene sodium is replaced by a para-bromo phenyl group.2.The effect of Azumolene on the twitch of the intact rat soleus preparation is nearly maximal at a dose of 20 mg kg-1.This dose of Azumolene reduces the amplitude of the twitch to 31.9% of the control value.By comparison, dantrolene sodium reduced the twitch amplitude to 31.3% of the control value at a dose of 5 mg kg-1.3.The contraction of intrafusal muscle as measured by the response of spindle afferent discharge was also reduced by Azumolene.4.The most significant difference between the effect of Azumolene and dantrolene sodium on the contraction of intrafusal muscle was that Azumolene had an appreciable depressant action at high stimulation frequencies at which dantrolene sodium had only a minimal relaxant effect on the intrafusal muscle contraction.

Solubility Information

Solubility	DMSO: 45 mg/mL (128.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.5 mg/mL (4.3 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8642 mL	14.3209 mL	28.6418 mL
5 mM	0.5728 mL	2.8642 mL	5.7284 mL
10 mM	0.2864 mL	1.4321 mL	2.8642 mL
50 mM	0.0573 mL	0.2864 mL	0.5728 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

<https://pubmed.ncbi.nlm.nih.gov/2790379/>

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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