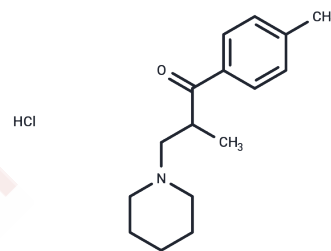


Tolperisone hydrochloride

Chemical Properties

CAS No. :	3644-61-9
Formula:	C ₁₆ H ₂₄ ClNO
Molecular Weight:	281.82
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Tolperisone hydrochloride (Muscalm), a centrally acting muscle relaxant, is used in the therapy of pathologically increased tone of the cross-striated muscle resulted by neurological diseases (damage of the encephalomyelitis, myelopathy, multiple sclerosis, pyramidal tract) and of spastic paralysis and other encephalopathies manifested with muscular dystonia.
Targets(IC50)	Sodium Channel
In vivo	Tolperisone hydrochloride is a safe and effective drug for the treatment of pain-reflex muscle spasms without the typical side effects of central muscle relaxants. Tolperisone blocks calcium ion flow in snail neurons, decreases sodium-potassium ion permeability at frog Lang's ganglion, and has an current passage through Nav1.6 channels (heterologous expression) Inhibitory effect on current through Nav1.6 channel (heterologous expression).

Solubility Information

Solubility	DMSO: 55 mg/mL (195.16 mM), Sonication is recommended. Ethanol: 52 mg/mL (184.51 mM), Sonication is recommended. H2O: 51 mg/mL (180.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5484 mL	17.7418 mL	35.4836 mL
5 mM	0.7097 mL	3.5484 mL	7.0967 mL
10 mM	0.3548 mL	1.7742 mL	3.5484 mL
50 mM	0.071 mL	0.3548 mL	0.7097 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.

Reference

Hofer D, et al. Eur J Pharmacol, 2006, 538(1-3), 5-14.

Pratzel HG, et al. Pain, 1996, 67(2-3), 417-425.

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