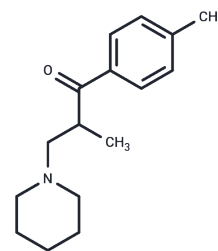


## Tolperisone free base

## Chemical Properties

CAS No. :	728-88-1
Formula:	C <sub>16</sub> H <sub>23</sub> NO
Molecular Weight:	245.36
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Tolperisone free base, a centrally acting muscle relaxant, has been used for the symptomatic treatment of spasticity and muscle spasm.
Targets(IC50)	Others,Sodium Channel

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0756 mL	20.3782 mL	40.7564 mL
5 mM	0.8151 mL	4.0756 mL	8.1513 mL
10 mM	0.4076 mL	2.0378 mL	4.0756 mL
50 mM	0.0815 mL	0.4076 mL	0.8151 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

- Luo D, Wu G, Ji Y, Zhang Z, He F, Mou X, Zhu Q, Yang B. The comparative study of clinical efficacy and safety of baclofen vs tolperisone in spasticity caused by spinal cord injury. Saudi Pharm J. 2017 May;25(4):655-659. doi: 10.1016/j.jsps.2017.04.041. Epub 2017 May 7. PubMed PMID: 28579907; PubMed Central PMCID: PMC5447437.
- Agarwal S, Patel T, Shah N, Patel BM. Comparative study of therapeutic response to baclofen vs tolperisone in spasticity. Biomed Pharmacother. 2017 Mar;87:628-635. doi: 10.1016/j.biopha.2017.01.005. Epub 2017 Jan 10. Erratum in: Biomed Pharmacother. 2017 Aug;92:1140. PubMed PMID: 28086137.
- Tekes K. Basic aspects of the pharmacodynamics of tolperisone, a widely applicable centrally acting muscle relaxant. Open Med Chem J. 2014 Jul 11;8:17-22. doi: 10.2174/1874104501408010017. eCollection 2014. PubMed PMID: 25132868; PubMed Central PMCID: PMC4133921.

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