



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

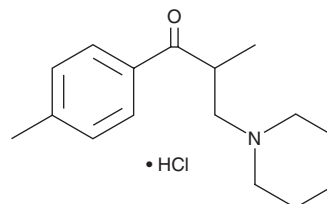
PRODUCT INFORMATION



Tolperisone (hydrochloride)

Item No. 26078

CAS Registry No.: 3644-61-9
Formal Name: 2-methyl-1-(4-methylphenyl)-3-(1-piperidinyl)-1-propanone, monohydrochloride
Synonym: N-553
MF: C₁₆H₂₃NO • HCl
FW: 281.8
Purity: ≥98%
UV/Vis.: λ_{max}: 257 nm
Supplied as: A crystalline solid
Storage: 4°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Tolperisone (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the tolperisone (hydrochloride) in the solvent of choice. Tolperisone (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of tolperisone (hydrochloride) in these solvents is approximately 20, 10, and 2 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of tolperisone (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of tolperisone (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Tolperisone is a piperidine that acts as an inhibitor of voltage-gated sodium channels with an IC₅₀ value of 198 μM, for inhibition of peak sodium currents evoked by step depolarizations in dorsal root ganglion (DRG) neurons, *in vitro*.¹ Tolperisone acts as an antispastic agent that attenuates monosynaptic, disynaptic, and polysynaptic reflex response to dorsal root stimulation *in vivo*. Formulations containing tolperisone are used as analgesics and muscle relaxants.

Reference

1. Kocsis, P., Farkas, S., Fodor, L., *et al.* Tolperisone-type drugs inhibit spinal reflexes via blockade of voltage-gated sodium and calcium channels. *J. Pharmacol. Exp. Ther.* **315**(3), 1237-1246 (2005).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 01/08/2019

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM