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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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

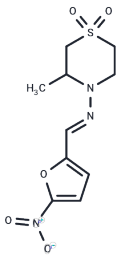
linkedin.com/company/szaboscandic

Data Sheet (Cat.No.T5325)

TargetMol

Nifurtimox

Chemical Properties



CAS No. : 23256-30-6

Formula: C10H13N3O5S

Molecular Weight: 287.29

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Nifurtimox (BAY-A-2502) is an antiprotozoal agent (IC50s = 9.91, 12.28, and 10.44 μM against Taluahuén, LQ, and Brener strains of T. cruzi- epimastigotes, respectively).
Targets(IC50)	Dehydrogenase,Parasite
In vitro	Nifurtimox can produce anion radicals and interfere with oxygen metabolism [1]. On the neuroblastoma cell lines LA-N-1, IMR-32, LS and SK-N-SH, the treatment of nifurtimox shows an increased production of oxidative stress, a reduced lactate dehydrogenase enzyme activity and reduced lactate production. Furthermore, nifurtimox leads to reduced mRNA and protein levels of the proto-oncogene protein N-Myc [2].
Cell Research	To assess the cell viability after incubation with nifurtimox at different concentrations (10 μg/mL up to 50 μg/mL or 34.8 μM to 174 μM, respectively in the supernatant growth medium) or the vehicle control with according concentrations, all neuroblastoma cell lines were subjected to an MTS assay. Stock solutions of MTS were made at 480 μM in sterile filtered deionized water and stored at ?20°C. Cells were grown to approximately 50% confluency, treated with nifurtimox, and incubated for 1 h with fresh media containing 12 μM MTS. The supernatant was subsequently removed and the cells were lysed with DMSO containing 10% (w/v) sodium dodecyl sulfate (SDS) and 1% (v/v) glacial acetic acid (Carl Roth, #3738). Purple formazan contents of each cell lysate were photometrically analyzed in triplicates at 570 nm (630 nm reference wavelength) in 96 microtiter plates [2].

Solubility Information

Solubility	H2O: Insoluble, DMSO: 55 mg/mL (191.44 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4808 mL	17.404 mL	34.808 mL
5 mM	0.6962 mL	3.4808 mL	6.9616 mL
10 mM	0.3481 mL	1.7404 mL	3.4808 mL
50 mM	0.0696 mL	0.3481 mL	0.6962 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

Li C, Zhang J, Wu Q, et al.Nifuroxazide activates the parthanatos to overcome TMPRSS2: ERG fusion-positive prostate cancer.Molecular Cancer Therapeutics.2023