



# SZABO SCANDIC

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## 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

# Temozolomide

AGT inhibitor  
Catalog No. SIH-363



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Temozolomide

### Description

AGT inhibitor

### Purity

>99% (TLC); NMR(Conforms)

### CAS No.

85622-93-1

### Molecular Formula

CH<sub>4</sub>N<sub>4</sub>O

### Molecular Weight

194.2

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

Soluble in DMSO (25 mg/ml, warm) or water (weakly)

### Source

Synthetic

### Appearance

Off white powder

### SMILES

CN1C(=O)N2C=NC(=C2N=N1)C(=O)N

### InChI

InChI=1S/C6H6N6O2/c1-11-6(14)12-2-8-3(4(7)13)5(12)9-10-11/h2H,1H3,(H2,7,13)

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## InChIKey

BPEGJWRSRHCHSN-UHFFFAOYSA-N

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## Safety Phrases

Classification: Toxic

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

Precautionary Phrases:

P201 Obtain special instructions before use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice or attention.

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## Cite This Product

Temozolomide (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-363)

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## Biological Description

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### Alternative Names

3-Methyl-4-oxo-3,4-dihydroimidazo[5,1-d][1,2,3,5]tetrazine-8-carboxamide; 8-Carbamoyl-3-methylimidazo[5,1-d]-1,2,3,5-tetrazin-4(3H)-one

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### Research Areas

Cancer, Apoptosis

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### PubChem ID

5394

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### Scientific Background

Temozolomide is a membrane permeable DNA alkylating agent which acts as an anti-tumor and anti-angiogenic agent by alkylating the N-7 or O-6 positions of guanine residues which triggers tumor cell death (1-2). It has been used clinically as an anti-cancer agent (3) and has been found to induce autophagy in a variety of cell lines (4).

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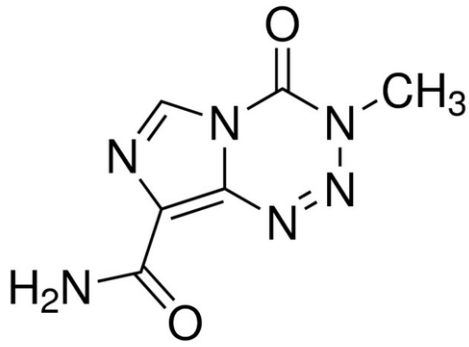
### References

1. Kurzen H., et al. (2003) Anticancer Drugs. 14: 515.
  2. Gunther W., et al. (2003) Br. J. Cancer. 88: 463.
  3. Danson S.J., et al. (2001) Expert Rev. Anticancer Ther. 10: 13.
  4. Natsumeda M., et al. (2011) Neuropathology. 31: 486.
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## Product Images

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Chemical structure of Temozolomide (SIH-363), a DNA alkylator / apoptosis inducer.  
CAS #: 85622-93-1. Molecular Formula: C<sub>6</sub>H<sub>6</sub>N<sub>6</sub>O<sub>2</sub>. Molecular Weight: 194.2 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.