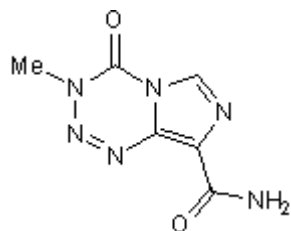


# Temozolomide

**Cat. No. 2706**



**Alternative Names:** NSC 362856, CCRG 81045

**Chemical Name:** 3,4-Dihydro-3-methyl-4-oxoimidazo[5,1-*d*]-1,2,3,5-tetrazine-8-carboxamide

## Biological Activity

DNA methylating, chemotherapeutic agent. Displays antitumor activity against a board spectrum of tumors, including leukemias, lymphomas and solid tumors (IC<sub>50</sub> = 5.0 μM for cytotoxicity against mouse TLX5 lymphoma cells). Induces autophagy in malignant glioma cells.

## Technical Data

M.Wt:

194.15

Formula:

C<sub>6</sub>H<sub>6</sub>N<sub>6</sub>O<sub>2</sub>

Solubility:

Soluble to 50 mM in DMSO

Purity:

>99 %

Storage:

Store at RT

CAS No:

85622-93-1

Phone: (800) 343-7475 (612) 379-2956

Fax: (612) 656-4400

Email: [customerservice@rndsystems.com](mailto:customerservice@rndsystems.com)

The technical data provided above is for guidance only.  
For batch specific data refer to the Certificate of Analysis.

## References

**Plowman *et al*** (1994) Preclinical antitumor activity of temozolomide in mice: efficacy against human brain tumor xenografts and synergism with 1,3-bis(2-chloroethyl)-1-nitrosourea. *Cancer Res.* **54** 3793. PMID: [8033099](#).

**Clark *et al*** (1995) Antitumor imidazotetraazines. 32. Synthesis of novel imidazotetrazinones and related bicyclic heterocycles to probe the mode of action of the antitumor drug temozolomide. *J.Med.Chem.* **38** 1493. PMID: [7739008](#).

**Bodell *et al*** (2003) Formation of DNA adducts and induction of *lacI* mutations in big blue rat-2 cells treated with temozolomide: implications for the treatment of low-grade adult and pediatric tumors. *Cancer Epidemiol.Biomarkers Prevent.* **12** 545.

**Kanzawa *et al*** (2004) Role of autophagy in temozolomide-induced cytotoxicity for malignant glioma cells. *Cell Death Differ.* **11** 448. PMID: [14713959](#).

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