



Catalog # 10-2390

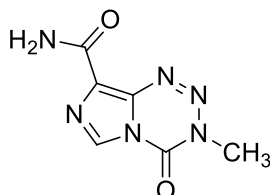
Temozolomide

CAS# 85622-93-1

8-Carbamoyl-3-methylimidazo[5,1-d]-1,2,3,5-tetrazin-4(3H)-one

NSC-362856

Lot # X103715



DNA alkylating agent with antitumor and antiangiogenic activity^{1,2}. Clinically useful anticancer agent³. Induces autophagy in a variety of cell lines⁴. Cell permeable.

- 1) Kurzen *et al.* (2003), *Inhibition of angiogenesis by non-toxic doses of temozolomide*; Anticancer Drugs, **14** 515
- 2) Gunther *et al.* (2003), *Temozolomide induces apoptosis and senescence in glioma cells cultured as multicellular spheroids*; Br. J. Cancer, **88** 463
- 3) Danson *et al.* (2001), *Temozolomide: a novel oral alkylating agent*; Curr. Opin. Expert Rev. Anticancer Ther., **10** 13
- 4) Natsumeda *et al.* (2011), *Induction of autophagy in temozolomide treated malignant gliomas*; Neuropathology, **31** 486

PHYSICAL DATA

Molecular Weight:	194.15
Molecular Formula:	C ₆ H ₆ N ₆ O ₂
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml with warming), Water (very limited solubility in water)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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