Temozolomide

产品信息:

产品名称：Temozolomide

规格:

目录号	产品名称	规格
X13116	Temozolomide	10mg
X13117	Temozolomide	50mg
X13118	Temozolomide	100mg

特性说明:

CAS 号	85622-93-1
分子式	C6H6N6O2
分子量	194.15 g/mol
溶解度	>6.6mg/mL in DMSO
纯度	98.00%
运输条件	冰袋运输
储存条件	-20°C 保存

产品说明:

Temozolomide, an alkylating agent, is a DNA damage inducer.

1、Cell experiment

Cell lines： SK-LMS-1 leiomyosarcoma (MGMT-/p53+), Ewing sarcoma A-673 and GIST-T1 (both lines with MGMT+/p53- phenotype), and glioblastoma T98G (MGMT+/p53+)

Preparation method： The solubility of this compound in DMSO is >6.6mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37℃ for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20℃ for several months.

Reacting condition： 62.5, 125, 250 and 500 μM; 72 h

Applications： In SK-LMS-1 cells, Temozolomide inhibited proliferative activity of SK-LMS-1 cells. A-673 cells was most sensitive to temozolomide, the effect was time- and dose-dependent. Preincubation of Ewing sarcoma cells with O6-benzylguanine potentiated the cytotoxic effect of the alkylating agent and reduced viability of tumor cells. GIST-T1 cells were insensitive to temozolomide.

2、Animal experiment

Animal models： PARP1 wild‐type (WT) and PARP1 knock‐out (KO) mice

Dosage form： 68 mg/kg; once daily for 5 days; orally administrated

Application： In PARP1 WT mice, temozolomide significantly lowered concentrations of NAD+ in the liver when compared with the control group (by 22%, p = 0.02). In the livers of PARP1 KO mice, there was

also a statistically significant reduction in NAD+ in the temozolomide - only group when compared with the control (by 22%, p = 0.03).

Other notes： Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

注意事项：

为了您的安全和健康，请穿实验服并戴一 次性手套操作。

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