

## Temozolomide Acid

## Chemical Properties

CAS No. :	113942-30-6
Formula:	C <sub>6</sub> H <sub>5</sub> N <sub>5</sub> O <sub>3</sub>
Molecular Weight:	195.136
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>

## Biological Description

Description	Temozolomide Acid (TMZA) is a metabolite of temozolomide (TMZ). Temozolomide processes anticancer activity in vitro. Temozolomide (TMZ) is an oral alkylating agent used to treat glioblastoma multiforme (GBM) and astrocytomas.
Targets(IC50)	Others,DNA/RNA Synthesis

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble, DMSO: 65.00 mg/mL (333.10 mM),Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (10.25 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1245 mL	25.6226 mL	51.2453 mL
5 mM	1.0249 mL	5.1245 mL	10.2491 mL
10 mM	0.5125 mL	2.5623 mL	5.1245 mL
50 mM	0.1025 mL	0.5125 mL	1.0249 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lee S Y . Temozolomide resistance in glioblastoma multiforme[J]. Genes & Diseases, 2016, 3( 3):198-210.

Karachi A , Dastmalchi F , Mitchell D A , et al. Temozolomide for Immunomodulation in the Treatment of Glioblastoma[J]. Neuro Oncology, 2018, 20(12):1566-1572.

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