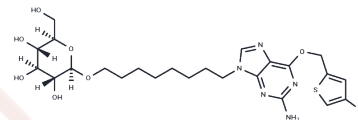


O6BTG-octylglucoside

Chemical Properties

CAS No. : 382607-78-5
 Formula: C₂₄H₃₄BrN₅O₇S
 Molecular Weight: 616.53
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	O6BTG-octylglucoside is a potent inhibitor of O6-methylguanine-DNA methyltransferase (MGMT) with IC ₅₀ values of 10 nM in HeLa S3 cells and 32 nM in vitro (cell extracts).
Targets(IC ₅₀)	Others,DNA Methyltransferase
In vitro	O6BTG-octylglucoside is a potent and non-toxic MGMT inhibitor, demonstrating IC ₅₀ s of 10 nM in HeLa S3 cells and 32 nM in vitro (cell extracts).

Solubility Information

Solubility	DMSO: 100 mg/mL (162.2 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: 3.3 mg/mL (5.35 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	1.622 mL	8.1099 mL	16.2198 mL
5 mM	0.3244 mL	1.622 mL	3.244 mL
10 mM	0.1622 mL	0.811 mL	1.622 mL
50 mM	0.0324 mL	0.1622 mL	0.3244 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

Jost Reinhard, et al. Inactivation of O6-methylguanine-DNA methyltransferase by glucose-conjugated inhibitors. Int.J.Cancer. (2001) 93,373-379.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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