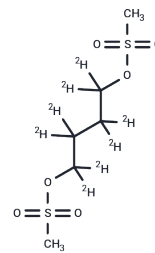


## Busulfan-D8

## Chemical Properties

CAS No. :	116653-28-2
Formula:	C <sub>6</sub> H <sub>6</sub> D <sub>8</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	254.35
Storage:	Store at low temperature, Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Busulfan-D8 is a deuterated Busulfan. Busulfan (T0923) is an effective alkylating anticancer agent with immunosuppressive and myeloablative activities. It exerts anti-cancer activity by crosslinking DNA and causing DNA damage.
Targets(IC50)	Apoptosis, DNA Alkylator/Crosslinker

## Solubility Information

Solubility	DMF: 10 mg/mL (39.32 mM), Sonication is recommended. DMSO: 10 mg/mL (39.32 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9316 mL	19.658 mL	39.3159 mL
5 mM	0.7863 mL	3.9316 mL	7.8632 mL
10 mM	0.3932 mL	1.9658 mL	3.9316 mL
50 mM	0.0786 mL	0.3932 mL	0.7863 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

Levi M, et al. Treosulfan induces distinctive gonadal toxicity compared with busulfan. *Oncotarget*. 2018 Apr 10;9(27):19317-19327.

Reimer J, et al. Antineoplastic agent busulfan regulates a network of genes related to coagulation and fibrinolysis. *Eur J Clin Pharmacol*. 2012 Jun;68(6):923-35.

Probin V, et al. Busulfan-induced senescence is dependent on ROS production upstream of the MAPK pathway. *Free Radic Biol Med*. 2007 Jun 15;42(12):1858-65.

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