

KSI-3716

## Chemical Properties

CAS No. : 1151813-61-4

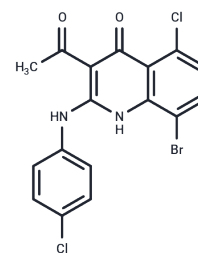
Formula: C<sub>17</sub>H<sub>11</sub>BrCl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 426.09

Store at low temperature

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	KSI-3716 is a c-Myc inhibitor used as a bladder chemotherapy agent. It blocks the formation of the c-MYC/MAX complex with the target gene promoter and induces cell cycle arrest and apoptosis. It can be used for bladder cancer research.
Targets(IC50)	Autophagy,c-Myc
In vitro	KSI-3716 is a potent c-Myc inhibitor that blocks the binding of c-MYC/MAX to target gene promoters. KSI-3716 is used as an intravesical chemotherapy agent. KSI-3716 effectively blocks complex formation in a dose-dependent manner, IC <sub>50</sub> 0.86 μM. C-myc-mediated transcription activity was inhibited by KSI-3716 at concentrations as low as 1 μM. KSI-3716 has cytotoxic effects on bladder cancer cells by inducing cell cycle arrest and apoptosis. [1]
In vivo	KSI-3716 was injected into the bladder of mice xenografted with bladder cancer at a dose of 5 mg/kg, and it was observed that it could significantly inhibit tumor growth and had little systemic toxicity. [1]

## Solubility Information

Solubility	DMSO: 2 mg/mL (4.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3469 mL	11.7346 mL	23.4692 mL
5 mM	0.4694 mL	2.3469 mL	4.6938 mL
10 mM	0.2347 mL	1.1735 mL	2.3469 mL
50 mM	0.0469 mL	0.2347 mL	0.4694 mL

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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

Jeong KC, et al. Intravesical instillation of c-MYC inhibitor KSI-3716 suppresses orthotopic bladder tumor growth. J Urol. 2014 Feb;191(2):510-8.

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