## Benzyl selenocyanate

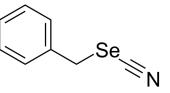
Cat. No.: HY-131991 CAS No.: 4671-93-6 Molecular Formula: C<sub>8</sub>H<sub>7</sub>NSe Molecular Weight: 196.11

Target: DNA Methyltransferase

Pathway: **Epigenetics** 

Storage: 4°C, sealed storage, away from moisture

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



**Product** Data Sheet

## **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (509.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.0992 mL	25.4959 mL	50.9918 mL
	5 mM	1.0198 mL	5.0992 mL	10.1984 mL
	10 mM	0.5099 mL	2.5496 mL	5.0992 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.75 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.75 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.75 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description	Benzyl selenocyanate is a chemopreventive agent for various chemically induced tumors in animal models at both the initiation and postinitiation stages. Benzyl selenocyanate is an inhibitor of DNA (cytosine-5)-methyltransferase (Mtase), with an With an IC $_{50}$ of 8.4 $\mu$ M $^{[1]}$ .
IC <sub>50</sub> & Target	IC50: 8.4 μM (Mtase) <sup>[1]</sup>
In Vitro	Benzyl selenocyanate inhibits the activity of DNA (cytosine-5)-methyltransferase (Mtase) in a concentration-dependent manner <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.

EFERENCES				
]. E S Fiala, er al. Inhibition of DNA cytosine methyltransferase by chemopreventive selenium compounds, determined by an improved assay for DNA cytosine ethyltransferase and DNA cytosine methylation. Carcinogenesis. 1998 Apr;19(4):597-604.				
	Caution: Product has not been fully validated for medical applications. For research use only.			
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