

HG106

## Chemical Properties

CAS No. : 928712-10-1

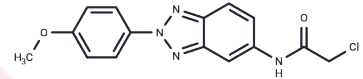
Formula: C<sub>15</sub>H<sub>13</sub>ClN<sub>4</sub>O<sub>2</sub>

Molecular Weight: 316.74

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	HG106, which is anti-inflammatory and may be used to treat the growth of diseases such as malignant tumours caused by mutations in the RAS gene., which is anti-inflammatory and may be used to treat the growth of diseases such as malignant tumours caused by mutations in the RAS gene.
Targets(IC50)	Apoptosis,Others
In vitro	We identified a potent SLC7A11 inhibitor, HG106, that markedly decreased cystine uptake and intracellular glutathione biosynthesis. Furthermore, HG106 exhibited selective cytotoxicity toward KRAS-mutant cells by increasing oxidative stress- and ER stress-mediated cell apoptosis. [1]
In vivo	Treatment of KRAS-mutant LUAD with HG106 in several preclinical lung cancer mouse models led to marked tumor suppression and prolonged survival. [1]

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble Ethanol: Insoluble DMSO: 122.5 mg/mL (386.75 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	3.1572 mL	15.7858 mL	31.5716 mL
5 mM	0.6314 mL	3.1572 mL	6.3143 mL
10 mM	0.3157 mL	1.5786 mL	3.1572 mL
50 mM	0.0631 mL	0.3157 mL	0.6314 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

Hu K, et al. Suppression of the SLC7A11/glutathione axis causes synthetic lethality in KRAS-mutant lung adenocarcinoma. *J Clin Invest.* 2020;130(4):1752-1766.

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