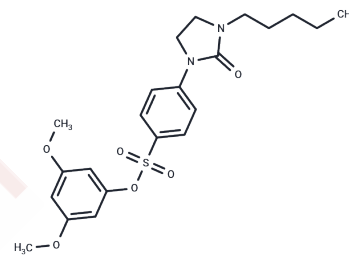


## Antitumor agent-87

## Chemical Properties

CAS No. :	1422527-88-5
Formula:	C <sub>22</sub> H <sub>28</sub> N <sub>2</sub> O <sub>6</sub> S
Molecular Weight:	448.53
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	Antitumor agent-87 is a potent compound exhibiting high antitumoral activity, with a Ki value of 0.23 $\mu$ M for CYP1A1. It demonstrates antiproliferative effects and induces cell cycle arrest at the G2/M phase, underscoring its effectiveness as an antitumor agent.
Targets(IC50)	Others,Cytochromes P450
In vitro	In MCF7, HT-29, and M21 cells, Antitumor agent-87 (0-12500 nM; 48 hours) exhibited antiproliferative activity with IC50 values of 600 nM, >12500 nM, and >12500 nM, respectively[1].
In vivo	Antitumor agent-87 ( 0.1 $\mu$ g/egg ) showed 29 % anti-tumor activity in transplanted HT-1080 chick embryos [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2295 mL	11.1475 mL	22.2951 mL
5 mM	0.4459 mL	2.2295 mL	4.459 mL
10 mM	0.223 mL	1.1148 mL	2.2295 mL
50 mM	0.0446 mL	0.223 mL	0.4459 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

Chavez Alvarez AC, et al. Homologation of the Alkyl Side Chain of Antimitotic Phenyl 4-(2-Oxo-3-alkylimidazolidin-1-yl)benzenesulfonate Prodrugs Selectively Targeting CYP1A1-Expressing Breast Cancers Improves Their Stability in Rodent Liver Microsomes. J Med Chem. 2023 Feb 23;66(4):2477-2497.

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