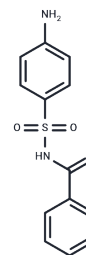


## Sulfabenzamide

## Chemical Properties

CAS No. :	127-71-9
Formula:	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	276.31
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	Sulfabenzamide (N-Sulfanilylbenzamide) is a sulfonamide antibacterial agent used alone or with sulfathiazole and sulfacetamide as a topical, intravaginal antibacterial preparation.
Targets(IC50)	Antibacterial, Antibiotic, Autophagy
In vitro	Sulfabenzamide inhibits the proliferation and increases Caspase-3 activity in T-47D cells. It dose not induce apoptosis but a minimal shift from G1 to S and G2/M phases of the cell cycle[1].
Cell Research	The MTT assay is used to evaluate the viability of T-47D cells incubated with different concentrations of sulfabenzamide (0.0-20 mM) or doxorubicin (0.0-0.6 μM) after 24, 48 and 72 h.(Only for Reference)

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 125 mg/mL (452.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (36.19 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.24 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.6191 mL	18.0956 mL	36.1912 mL
5 mM	0.7238 mL	3.6191 mL	7.2382 mL
10 mM	0.3619 mL	1.8096 mL	3.6191 mL
50 mM	0.0724 mL	0.3619 mL	0.7238 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

Raziye MOHAMMADPOUR, et al. Journal of Cell and Molecular Biology. 2012, 10(1): 41-54.

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