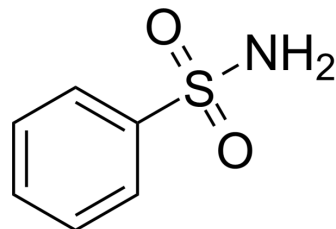


## Benzenesulphonamide

<b>Cat. No.:</b>	HY-101087	
<b>CAS No.:</b>	98-10-2	
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>7</sub> NO <sub>2</sub> S	
<b>Molecular Weight:</b>	157.19	
<b>Target:</b>	Carbonic Anhydrase	
<b>Pathway:</b>	Metabolic Enzyme/Protease	
<b>Storage:</b>	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (636.17 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.3617 mL	31.8086 mL	63.6173 mL
	5 mM	1.2723 mL	6.3617 mL	12.7235 mL
	10 mM	0.6362 mL	3.1809 mL	6.3617 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Benzenesulphonamide (compound 1) is a potent carbonic anhydrase inhibitor. Benzenesulphonamide shows CA II inhibitory activity<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

CA II<sup>[1]</sup>

### REFERENCES

[1]. Thakur A, et al. QSAR study on benzenesulphonamide carbonic anhydrase inhibitors: topological approach using Balaban index. Bioorg Med Chem. 2004 Feb 15;12(4):789-93.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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