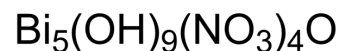


Bismuth subnitrate

Cat. No.:	HY-B2181
CAS No.:	1304-85-4
Molecular Formula:	Bi ₅ H ₉ N ₄ O ₂₂
Molecular Weight:	1461.99
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (13.68 mM; ultrasonic and warming and heat to 60°C)			
	H ₂ O : 1 mg/mL (0.68 mM; ultrasonic and warming and heat to 60°C)			
		Solvent Concentration	Mass	
	Preparing Stock Solutions		1 mg	5 mg
	1 mM	0.6840 mL	3.4200 mL	6.8400 mL
	5 mM	0.1368 mL	0.6840 mL	1.3680 mL
	10 mM	0.0684 mL	0.3420 mL	0.6840 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.11 mg/mL (0.76 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Bismuth subnitrate (Bismuth(III) oxynitrate) is a bismuth(III) compound that bears significant medical uses (e.g., as an antidiarrheic agent). Bismuth subnitrate is a simple, readily available and effective catalyst for the Markovnikov-type hydration of terminal acetylenes ^[1] .
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REFERENCES

[1]. Szécsényi Z, et al. Bismuth Subnitrate-Catalyzed Markovnikov-Type Alkyne Hydrations under Batch and Continuous Flow Conditions. *Molecules*. 2021;26(10):2864. Published 2021 May 12.

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

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