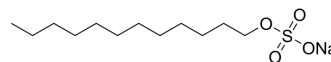


## Sodium dodecyl sulfate

Cat. No.:	HY-Y0316
CAS No.:	151-21-3
Molecular Formula:	C <sub>12</sub> H <sub>25</sub> NaO <sub>4</sub> S
Molecular Weight:	288.38
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 125 mg/mL (433.46 mM; Need ultrasonic)					
	DMSO : 100 mg/mL (346.76 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.4676 mL	17.3382 mL	34.6765 mL
			5 mM	0.6935 mL	3.4676 mL	6.9353 mL
10 mM			0.3468 mL	1.7338 mL	3.4676 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Sodium dodecyl sulfate is an anionic surfactant commonly used as a detergent, emulsifier, and protein denaturant in various industrial processes, especially in the production of personal care products, cleaners, and laboratory reagents. Sodium dodecyl sulfate has unique chemical properties that make it an effective ingredient in many applications, helping to reduce surface tension and enhance cleaning power.
In Vitro	Sodium dodecyl sulfate can be used as an excipient. Pharmaceutical excipients, or pharmaceutical auxiliaries, refer to other chemical substances used in the pharmaceutical process other than pharmaceutical ingredients. Pharmaceutical excipients generally refer to inactive ingredients in pharmaceutical preparations, which can improve the stability, solubility and processability of pharmaceutical preparations. Pharmaceutical excipients also affect the absorption, distribution, metabolism, and elimination (ADME) processes of co-administered drugs <sup>[1]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Elder DP, et al. Pharmaceutical excipients - quality, regulatory and biopharmaceutical considerations. Eur J Pharm Sci. 2016 May 25;87:88-99.

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

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