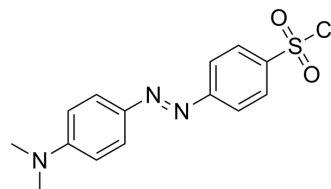


## Dabsyl chloride

<b>Cat. No.:</b>	HY-101890
<b>CAS No.:</b>	56512-49-3
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>14</sub> ClN <sub>3</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	323.8
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	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

<b>In Vitro</b>	DMSO : 2 mg/mL (6.18 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	3.0883 mL	15.4416 mL	30.8833 mL
		5 mM	0.6177 mL	3.0883 mL	6.1767 mL
10 mM		---	---	---	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.52 mg/mL (1.61 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.52 mg/mL (1.61 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dabsyl chloride is an amine derivatizing agent, able to give rise to stable products that can be easily monitored spectrophotometrically at 460 nm; Dabsyl chloride also used for labeling amino acids.
<b>In Vitro</b>	Dabsyl chloride can give rise to mono-Dabsyl and bis-Dabsyl derivatives in the presence of multiple amino groups. Furthermore with respect to OPA derivatization, Dabsyl chloride can react with primary and also with secondary amines <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

### Cell Assay <sup>[1]</sup>

Selected mouse brain samples from either cortical or striatal regions (100 mg wet weight) and neuroblastoma cells (SH-SY5Y) pellet derived from 25 cm<sup>2</sup> flask are treated with 500 µL of 0.1 M HCl containing 0.2% TDGA, sonicated for 10 min (only for brain tissue), and then centrifuged at 14000 g for 30 min. The supernatant is freeze-dried. 50 µL of reaction buffer and 100 µL of 15 mM Dabsyl chloride are added to the tube and derivatized.

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

### CUSTOMER VALIDATION

- Lwt-Food Sci Technol. 15 January 2022, 112783.
- Int J Food Sci Tech. 2020 Aug 11.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Francioso A, et al. HPLC Determination of Bioactive Sulfur Compounds, Amino Acids and Biogenic Amines in Biological Specimens. Adv Exp Med Biol. 2017;975:535-549.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA