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产品名称：4-(N,N-二甲基氨基)偶氮苯-4'-磺酸氯[多肽研究用氮保护剂]
产品别名：磺酰氯 ； Dabsyl chloride ； DABS-Cl

生物活性：

Description	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.
In Vitro	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[1].
Solvent&Solubility	***In Vitro:*** **DMSO : ≥ 5.2 mg/mL (16.06 mM)** * "≥" means soluble, but saturation unknown.

	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0883 mL	15.4416 mL	30.8833 mL
	5 mM	0.6177 mL	3.0883 mL	6.1767 mL
	10 mM	0.3088 mL	1.5442 mL	3.0883 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

In Vivo:

请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂：

——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶

1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline

Solubility: ≥ 0.52 mg/mL (1.61 mM); Clear solution

此方案可获得 ≥ 0.52 mg/mL (1.61 mM，饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μL 5.2 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。

2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)

Solubility: ≥ 0.52 mg/mL (1.61 mM); Clear solution

此方案可获得 ≥ 0.52 mg/mL (1.61 mM，饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μL 5.2 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。

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.

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实验参考：	
Cell Assay	Selected mouse brain samples from either cortical or striatal regions (100 mg wet weight) and neuroblastoma cells (SH-SY5Y) pellet derived from 25 cm^2 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. [1]
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.