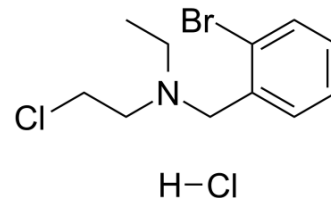


DSP-4 hydrochloride

Cat. No.:	HY-103210		
CAS No.:	40616-75-9		
Molecular Formula:	C ₁₁ H ₁₆ BrCl ₂ N		
Molecular Weight:	313.06		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (399.28 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.1943 mL	15.9714 mL	31.9428 mL
	5 mM		0.6389 mL	3.1943 mL	6.3886 mL
	10 mM		0.3194 mL	1.5971 mL	3.1943 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β²-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DSP-4 hydrochloride (Neurotoxin DSP 4 hydrochloride) is a highly selective neurotoxin and readily passes the blood-brain barrier with neurotoxic effects on noradrenergic neurons of adult and developing rats, can be used for the temporary selective degradation of the central and peripheral noradrenergic neurons, mainly those from the locus coeruleus (LC)^{[1][2]}.

REFERENCES

[1]. Hormigo S, et al. The selective neurotoxin DSP-4 impairs the noradrenergic projections from the locus coeruleus to the inferior colliculus in rats. *Front Neural Circuits*. 2012 Jun 28;6:41.

[2]. Jaim-Etcheverry G, et al. DSP-4: a novel compound with neurotoxic effects on noradrenergic neurons of adult and developing rats. *Brain Res*. 1980 Apr 28;188(2):513-23.

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

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