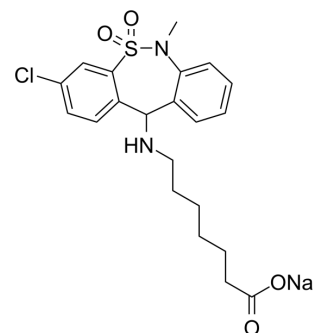


## Tianeptine sodium salt

<b>Cat. No.:</b>	HY-90003A		
<b>CAS No.:</b>	30123-17-2		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>24</sub> ClN <sub>2</sub> NaO <sub>4</sub> S		
<b>Molecular Weight:</b>	458.93		
<b>Target:</b>	5-HT Receptor		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (217.90 mM; Need ultrasonic)  
 H<sub>2</sub>O : 100 mg/mL (217.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1790 mL	10.8949 mL	21.7898 mL
	5 mM	0.4358 mL	2.1790 mL	4.3580 mL
	10 mM	0.2179 mL	1.0895 mL	2.1790 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: ≥ 2.5 mg/mL (5.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tianeptine sodium salt is a selective facilitator of 5-HT uptake. Tianeptine sodium salt has no affinity for a wide range of receptors, including 5-HT and dopamine (IC<sub>50</sub>>10 μM) and has no effect on noradrenalin or dopamine uptake. Tianeptine sodium salt has antidepressant, anxiolytic, analgesic and neuroprotective activities<sup>[1][2][3][4]</sup>.

#### IC<sub>50</sub> & Target

serotonin

---

## CUSTOMER VALIDATION

- Nat Commun. 2018 Oct 15;9(1):4272.

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

## REFERENCES

- [1]. Broqua P; Baudrie V; Chaouloff F Differential effects of the novel antidepressant tianeptine on L-5-hydroxytryptophan (5-HTP)-elicited corticosterone release and body weight loss. *Eur Neuropsychopharmacol.* 1992 Jun;2(2):115-20.
- [2]. Alamo C, et, al. Tianeptine, an atypical pharmacological approach to depression. *Rev Psiquiatr Salud Ment.* Jul-Sep 2019;12(3):170-186.
- [3]. Uzbay IT, et, al. Analgesic effect of tianeptine in mice. *Life Sci.* 1999;64(15):1313-9.
- [4]. Plaisant F, et, al. Neuroprotective properties of tianeptine: interactions with cytokines. *Neuropharmacology.* 2003 May;44(6):801-9.
- 

**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