

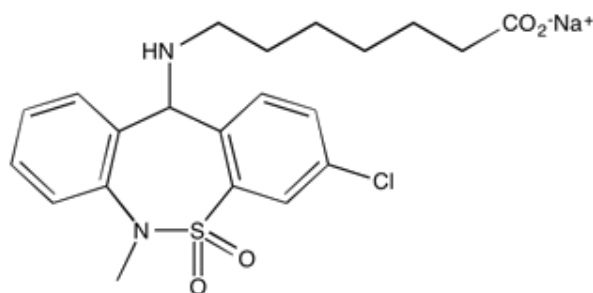
**Catalog # 10-2937**

**Tianeptine sodium salt**

CAS# 30123-17-2

7-[(3-chloro-6,11-dihydro-6-methyl-5,5-dioxidibenzo[c,f][1,2]thiazepin-11-yl)amino]heptanoic acid, sodium salt

Lot # X107422



Selective enhancer of serotonin uptake in the brain with no effect on noradrenalin or dopamine uptake.<sup>1</sup> Clinically useful antidepressant.<sup>2</sup> Displays neuroprotective effects against hypoxia in cell culture and against the deleterious effects of cytokines *in vivo*.<sup>3</sup> Induces mTORC1 activation in rat hippocampal neurons and increases dendritic outgrowth, spine density and synaptic proteins.<sup>4</sup> Attenuates LPS-evoked inflammatory activation of microglial cells in culture.<sup>5</sup>

- 1) Mennini *et al.* (1987), *Tianeptine, a selective enhancer of serotonin uptake in rat brain*; Naunyn-Schmied. Arch. Pharmacol., **336** 478
- 2) Kato and Weitsch (1988), *Neurochemical profile of tianeptine, a new antidepressant drug*; Clin. Neuropharmacol., **11** S43
- 3) Plaisant *et al.* (2003), *Neuroprotective properties of tianeptine: interactions with cytokines*; Neuropharmacology, **44** 801
- 4) Seo *et al.* (2016), *Tianeptine induces mTORC1 activation in rat hippocampal neurons under toxic conditions*; Psychopharmacology (Berl.), **233** 2617
- 5) Slusarczyk *et al.* (2017), *Anti-inflammatory properties of tianeptine on lipopolysaccharide-induced changes in microglial cells involve toll-like receptor-related pathways*; J. Neurochem., **136** 958

**PHYSICAL DATA**

Molecular Weight:	458.93
Molecular Formula:	C <sub>21</sub> H <sub>24</sub> ClN <sub>2</sub> O <sub>4</sub> S Na
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml) or in Water (up to 45 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 2 months.

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