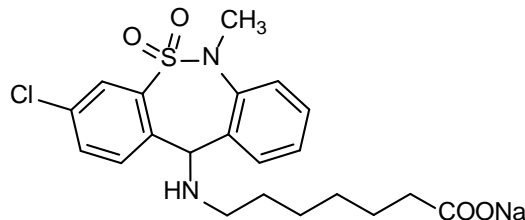


Product Name: Tianeptine
CAS 30123-17-2
7-[(3-Chloro-6,11-dihydro-6-methyl-5,5-dioxidibenzo[c, f][1,2]thiazepin-11-yl)amino]heptanoic acid, sodium salt

Catalog #: N-3008



Physical Properties: White powder

Molecular Weight: 458.9 C₂₁H₂₄ClN₂O₄S • Na

Analysis: >98% (HPLC); NMR (Conforms)

Solubilization: May be dissolved in water (45 mg/ml); or DMSO (5 mg/ml)

Storage: Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 2 months.

Pharmacology: Selective enhancer of serotonin uptake in the brain with no effect on noradrenalin or dopamine uptake¹. Clinically useful antidepressant². Displays neuroprotective effects against hypoxia in cell culture and against the deleterious effects of cytokines *in vivo*³. Induces mTORC1 activation in rat hippocampal neurons and increases dendritic outgrowth, spine density and synaptic proteins⁴. Attenuates LPS-evoked inflammatory activation of microglial cells in culture⁵.

References:

1. T Mennini *et al.* *Naunyn-Schmied. Arch. Pharmacol.* 1987 336:478
2. G Kato and AF Weitsch *Clin. Neuropharmacol.* 1988 11:S43
3. F Plaisant *et al.* *Neuropharmacology* 2003 44:801
4. MK Seo *et al.* *Psychopharmacology (Berl.)* 2016 233:2617
5. J Slusarczyk *et al.* *J. Neurochem.* 2017 136:958

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