

**DATA SHEET**

**Product Name:** Tianeptine

**Catalog #:** N-3008

**Alt:** CAS # 30123-17-2; 7-[(3-Chloro-6,11-dihydro-6-methyl-5,5-dioxidodibenzo[c,f][1,2]thiazepin-11-yl)amino]heptanoic acid, sodium salt

**Molecular Mass:** 458.9 C<sub>21</sub>H<sub>24</sub>ClN<sub>2</sub>O<sub>4</sub>S • Na

**Analysis:** >98% (HPLC); NMR (conforms)

**Supplied As:** White powder

**Resuspension:** 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.

**Description:** 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>.

**References:**

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

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