



LKT Laboratories, Inc.

## Tianeptine

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### Product Information

**Product ID** T3202

**CAS No.** 66981-73-5

**Chemical Name** (1)-7-((3-Chloro-6,11-dihydro-6-methyl-5,5-dioxo-11H-benzo(c,f)(1,2)thiazepin-11-yl)amino)heptanoic acid S,S-dioxide

**Synonym** Tianeptine Acid; 7-[(3-chloro-6-methyl-5,5-dioxo-11H-benzo[c][2,1]benzothiazepin-11-yl)amino]heptanoic acid

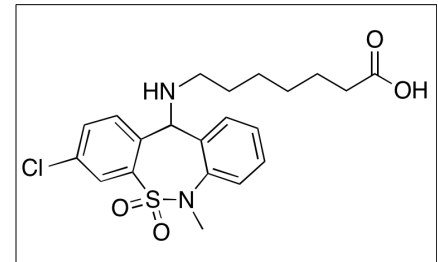
**Formula** C<sub>21</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>4</sub>S

**Formula Wt.** 436.95

**Melting Point**

**Purity** ≥98%

**Solubility**



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
T3202	10 mg	\$71.70
T3202	50 mg	\$248.10

**Store Temp** -20° C

**Ship Temp**

**Description** Tianeptine is an agonist at  $\mu$ ORs and  $\delta$ ORs as well as a potentiator at D2 and D3 DA receptors. Tianeptine exhibits neuromodulatory, antidepressant, anxiolytic, analgesic, anticonvulsant, and anti-inflammatory activities, although its mechanism of action is not well understood. In vitro, tianeptine inhibits LPS-induced inflammation and activation of microglia; is also decreases pro-inflammatory cytokine release, ROS release, and NF- $\kappa$ B activation. Clinically, this compound improves anxiety symptoms, neurocognitive function, and memory. Tianeptine also attenuates mechanical allodynia, an effect that may be mediated by 5-HT7 receptors.

**References** Slusarczyk J, Trojan E, Glombik K, et al. Anti-inflammatory properties of tianeptine on lipopolysaccharide-induced changes in microglial cells involve Toll-like receptor-related pathways. *J Neurochem.* 2015 Dec 7. [Epub ahead of print]. PMID: 26640965.

Yoo I, Woo JM, Lee SH, et al. Influence of anxiety symptoms on improvement of neurocognitive functions in patients with major depressive disorder: A 12-week, multicenter, randomized trial of tianeptine versus escitalopram, the CAMPION study. *J Affect Disord.* 2015 Oct 1;185:24-30. PMID: 26142691.

Lin H, Heo BH, Kim WM, et al. Antiallodynic effect of tianeptine via modulation of the 5-HT7 receptor of GABAergic interneurons in the spinal cord of neuropathic rats. *Neurosci Lett.* 2015 Jun 26;598:91-5. PMID: 25982324.

Cooper CM, Whiting DA, Cowen PJ, et al. Tianeptine in an experimental medicine model of antidepressant action. *J Psychopharmacol.* 2015 May;29(5):582-90. PMID: 25759404.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.