



LKT Laboratories, Inc.

Tianeptine Sodium Hydrate

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Product Information

Product ID T3203

CAS No. 30123-17-2

Chemical Name

Synonym

Formula $C_{21}H_{24}ClN_2NaO_4S$

Formula Wt. 458.93

Melting Point

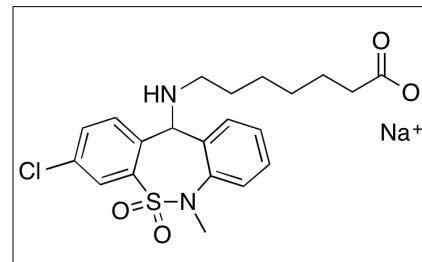
Purity $\geq 98\%$

Solubility DMSO: ≥ 20 mg/mL

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Tianeptine is an agonist at μ ORs and δ 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- κ 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.



Bulk quantities available upon request

Product ID	Size
T3203	5 mg
T3203	25 mg
T3203	50 mg

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.