



LKT Laboratories, Inc.

Tirasemtiv

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Product Information

Product ID T3568

CAS No. 1005491-05-3

Chemical Name

Synonym CK-2017357, Troponin Activator

Formula $C_{12}H_{14}N_4O$

Formula Wt. 230.27

Melting Point

Purity $\geq 99\%$

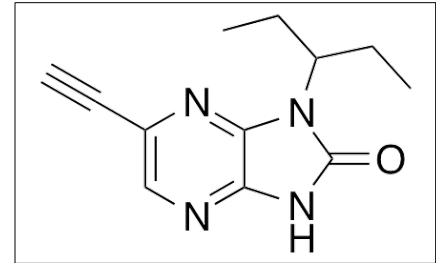
Solubility DMSO: ≥ 52 mg/mL

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

Ship Temp Ambient

Description

Tirasemtiv is an activator of the fast skeletal muscle troponin complex that sensitizes the sarcomere to Ca^{2+} and increases muscle force. Tirasemtiv displays neuromodulatory activity; it improves motor functions in models of amyotrophic lateral sclerosis (ALS) and is currently in clinical trials as a potential treatment for myasthenia gravis and other neurodegenerative diseases.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T3568	1 mg	\$99.10
T3568	5 mg	\$346.80
T3568	25 mg	\$1052.90

References Sanders DB, Rosenfeld J, Dimachkie MM, et al. A Double-Blinded, Randomized, Placebo-Controlled Trial to Evaluate Efficacy, Safety, and Tolerability of Single Doses of Tirasemtiv in Patients with Acetylcholine Receptor-Binding Antibody-Positive Myasthenia Gravis. *Neurotherapeutics*. 2015 Apr;12(2):455-60. PMID: 25742919.

Hwee DT, Kennedy A, Ryans J, et al. Fast skeletal muscle troponin activator tirasemtiv increases muscle function and performance in the B6SJL-SOD1G93A ALS mouse model. *PLoS One*. 2014 May 7;9(5):e96921. PMID: 24805850.

Russell AJ, Hartman JJ, Hinken AC, et al. Activation of fast skeletal muscle troponin as a potential therapeutic approach for treating neuromuscular diseases. *Nat Med*. 2012 Feb 19;18(3):452-5. PMID: 22344294.

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