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Product Information

Product ID T1298

CAS No. 327036-89-5

Chemical Name 4-Benzyl-2-methyl-1,2,4-thiadiazolidine-3,5-dione

Synonym

Formula C₁₀H₁₀N₂O₂S

Formula Wt. 222.26 Melting Point 63-64.4°C

Purity ≥98%

Solubility Soluble in DMSO

(18mg/mL).

Store Temp -20°C

Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
T1298	5 mg
T1298	25 mg
T1298	100 mg
T1298	250 mg

Description TDZD-8 is an inhibitor of glycogen synthase kinase 3B (GSK-3B) that exhibits anti-inflammatory, anti-arthritic, and neuroprotective activities. TDZD-8 prevents hemorrhagic shock-induced changes in liver microcirculation and hepatocellular injury, inhibiting the inflammatory response and improving liver function in vivo. In rheumatoid arthritis synoviocytes, TDZD-8 decreases levels of p38 MAPK, ATF-2, c-jun, and JNK; in matched animal models, this compound decreases collagen-induced arthritis by inhibiting infiltration of T cells and macrophages as well as decreasing levels of IL-1B, IL-6, TNF-α, and IFN-γ. In other animal models, TDZD-8 improves deficits in spontaneous alternation in the Y-maze and changes in locomotor activity induced by amphetamines and viral-like immune activation.

References Jellestad L, Fink T, Pradarutti S, et al. Inhibition of glycogen synthase kinase (GSK)-3-8 improves liver microcirculation and hepatocellular function after hemorrhagic shock. Eur J Pharmacol. 2014 Feb 5;724:175-84. PMID: 24389157.

> Kwon YJ, Yoon CH, Lee SW, et al. Inhibition of glycogen synthase kinase-3ß suppresses inflammatory responses in rheumatoid arthritis fibroblast-like synoviocytes and collagen-induced arthritis. Joint Bone Spine. 2013 Oct 28. [Epub ahead of print]. PMID: 24176738.

Willi R, Harmeier A, Giovanoli S, et al. Altered GSK3B signaling in an infection-based mouse model of developmental neuropsychiatric disease. Neuropharmacology. 2013 Oct;73:56-65. PMID: 23707483.

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