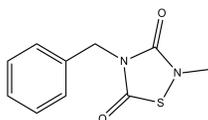


PRODUCT: TDZD-8**ALTERNATE NAME:** 4-Benzyl-2-methyl-1,2,4-thiadiazolidine-3,5-dione**CATALOG #:** 2854-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₀H₁₀N₂O₂S**MOLECULAR WEIGHT:** 222.26**CAS NUMBER:** 327036-89-5**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>10 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light

DESCRIPTION: TDZD-8 is a non-ATP competitive inhibitor of the serine/threonine kinase glycogen synthase kinase 3β (GSK3β; IC₅₀ = 2 μM), binding to the active site of GSK3β. It does not significantly affect the activities of Cdk-1/cyclin B, CK-II, cAMP-dependent protein kinase, or protein kinase C (IC₅₀s = >100 μM). TDZD-8 also causes rapid death of leukemia stem and progenitor cells.

REFERENCES: Guzman, M.L., *et al.* (2007). *Blood* **110**, 4436-4444; Martinez, A., *et al.* (2002). *J. Med. Chem.* **45**, 1292-1299.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Alsterpaullone (Cat. No. 1897-1, 5)

1-Azakenpaullone (Cat. No. 1944-1, 5)

BIO (Cat. No. 1673-1)

Bisindolylmaleimide I (Cat. No. 1945-1, 5)

Bisindolylmaleimide I hydrochloride (Cat. No. 1947-1, 5)

Bikinin (Cat. No. 2034-10, 50)

CHIR99021 (Cat. No. 1677-5, 25)

EZSolution™ CHIR99021 (Cat. No. 1748-5)

EZSolution™ CHIR99021, Sterile-Filtered (Cat. No. 1991-1)

CHIR-98014 (Cat. No. 2595-1, 5)

EZSolution™ CHIR-98014 (Cat. No. 2639-1)

GSK-3 Inhibitor, TWS119 (Cat. No. 1655-2)

IM-12 (Cat. No. 2822-5, 25)

Kenpaullone (Cat. No. 1904-1)

Ro 31-8220 methanesulfonate (Cat. No. 1946-1, 5)

SB-216763 (Cat. No. 1769-1, 5)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**