

Product Data Sheet

Product Name: YL0441
Cat. No.: GC79354

Chemical Properties

Cas. No.

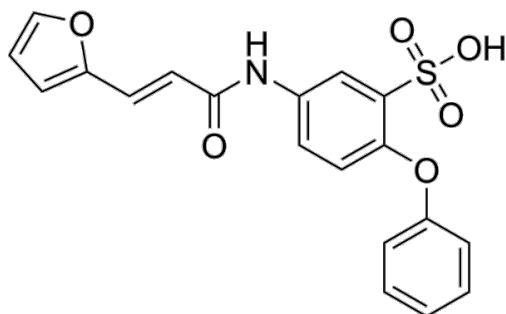
Formula $C_{19}H_{15}NO_6S$ M.Wt 385.39

Solubility DMSO: 100 mg/mL (259.48 mM; Need ultrasonic) Storage Store at 4°C, away from moisture and light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

YL0441 is an inhibitor of Δ FOSB/JUND heterodimers and Δ FOSB homomultimers, with IC_{50} values of 13.7 μ M and 12.3 μ M, respectively. YL0441 blocks the binding of Δ FOSB to DNA. YL0441 reduces Δ FOSB bound to genomic DNA in the hippocampal tissues of APP mice. YL0441 is applicable to the research of Alzheimer's disease [1].

In Vivo, YL0441 (50 μ M; infused into the hippocampus; for 3 consecutive days) reduces the binding level of Δ FOSB to genomic DNA in the hippocampus of APP transgenic mice by ~94% [1].

Caution: Product has not been fully validated for medical applications. For research use only.

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In Vitro, YL0441 (0-200 μ M; 15 min) disrupts the binding of purified full-length mouse Δ FOSB/JUND heterodimers and Δ FOSB/ Δ FOSB homomers to a TAMRA-labeled AP-1 consensus oligonucleotide with IC₅₀ values of 13.7 μ M and 12.3 μ M, respectively^[1]. YL0441 (12.5-50 μ M; 72 h) shows no detectable toxicity to Neuro 2A cells at concentrations up to 50 μ M after 72 h of incubation^[1]. YL0441 (1 μ M; up to 60 min) exhibits high metabolic stability in mouse liver microsomes, with a half-life greater than 186.38 min^[1].

References:

[1]. McNeme S, et al. Efficient In Vivo Pharmacological Inhibition of Δ FOSB, an AP-1 Transcription Factor, in the Brain. ACS Chem Neurosci. 2026;17(7):1316-1331.

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