

Product Data Sheet

Product Name: VU0420373

Cat. No.: GC64057

Chemical Properties

Cas. No. 38376-29-3

Formula C₁₅H₁₁FN₂O M.Wt 254.26

Solubility DMSO : 50 mg/mL (196.65 mM; Need ultrasonic) Storage Store at -20°C

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.

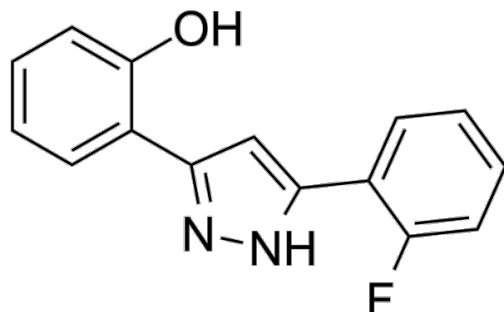
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

VU0420373 is a potent heme sensor system (HssRS) activator with an EC₅₀ of 10.7 μ M and a pEC₅₀ of 4.97. VU0420373 induces heme biosynthesis, and is toxic to fermenting *S. aureus*[1].

VU0420373 (compound 2e) has an IC₅₀ of >60 μ M for Newman aerobic and Newman anaerobic, respectively[1]. VU0420373 (40 μ M; 2, 4, 6, 8 hours) is able to preadapt *S. aureus* to a toxic concentration of heme (20 μ M)[1].

[1]. Brendan F Dutter, et al. Decoupling Activation of Heme Biosynthesis From Anaerobic Toxicity in a Molecule Active in *Staphylococcus Aureus*. ACS Chem Biol. 2016 May 20;11(5):1354-61.

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