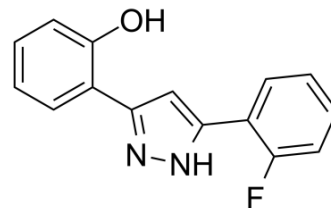


VU0420373

| | |
|--------------------|---|
| Cat. No.: | HY-115658 |
| CAS No.: | 38376-29-3 |
| Molecular Formula: | C ₁₅ H ₁₁ FN ₂ O |
| Molecular Weight: | 254.26 |
| Target: | Bacterial |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | VU0420373 is a potent heme sensor system (HssRS) activator with an EC ₅₀ of 10.7 μM and a pEC ₅₀ of 4.97. VU0420373 induces heme biosynthesis, and is toxic to fermenting <i>S. aureus</i> ^[1] . |
| IC₅₀ & Target | EC ₅₀ : 10.7 μM (HssRS) ^[1] pEC ₅₀ : 4.97 (HssRS) ^[1] |
| In Vitro | VU0420373 (compound 2e) has an IC ₅₀ of >60 μM for Newman aerobic and Newman anaerobic, respectively ^[1] . VU0420373 (40 μM; 2, 4, 6, 8 hours) is able to preadapt <i>S. aureus</i> to a toxic concentration of heme (20 μM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA