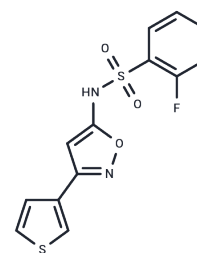


sCNH240

## Chemical Properties

CAS No. : 1357746-77-0  
 Formula: C<sub>13</sub>H<sub>9</sub>FN<sub>2</sub>O<sub>3</sub>S<sub>2</sub>  
 Molecular Weight: 324.35  
 Storage: Keep away from moisture  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	sCNH240 (2-Fluoro-N-[3-(3-thienyl)-5-isoxazolyl]benzenesulfonamide) is a potential and selective Rv1625c/Cya activator with good cell permeability and oral activity, IC <sub>90</sub> =1.24 μM in cholesterol-supplemented 7H12 medium against Mycobacterium tuberculosis (Mtb) H37Rv strain, and inhibition of CYP2C19, CYP2C9 and hERG channels.
Targets(IC50)	Antibacterial,Cytochromes P450,Potassium Channel
In vitro	sCNH240 showed potent anti-TB activity against M. tuberculosis H37Rv (MIC <sub>90</sub> = 1.24 μM) and intracellular efficacy (EC <sub>50</sub> = 2.93 μM) with low cytotoxicity (CC <sub>50</sub> > 40 μM). In a dormancy model, sCNH240 reduced CFU by 1 log <sub>10</sub> alone and 4 log <sub>10</sub> when combined with BPaL, likely via Rv1625c/Cya activation[1].
In vivo	After oral dosing (20 mg/kg) in mice, sCNH240 showed 78% bioavailability and maintained plasma levels above EC <sub>50</sub> for over 14 hours. IV dosing showed low clearance and no cardiotoxicity (hERG IC <sub>50</sub> > 30 μM)[1].

## Solubility Information

Solubility	H <sub>2</sub> O: 16.66 mg/mL (51.36 mM),Sonication is recommended. DMSO: 50 mg/mL (154.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.0831 mL	15.4154 mL	30.8309 mL
5 mM	0.6166 mL	3.0831 mL	6.1662 mL
10 mM	0.3083 mL	1.5415 mL	3.0831 mL
50 mM	0.0617 mL	0.3083 mL	0.6166 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Martinez, G., Tolentino, K., Sukheja, P., Webb, J., McNamara, C. W., Chatterjee, A. K., & Yang, B. (2025). Novel isoxazole thiophene-containing compounds active against Mycobacterium tuberculosis. *Bioorganic & Medicinal Chemistry Letters*, 119, 130108.

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