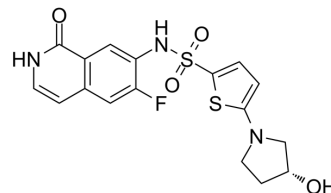


## LSN 3213128

Cat. No.:	HY-107981		
CAS No.:	1941211-99-9		
Molecular Formula:	C <sub>17</sub> H <sub>16</sub> FN <sub>3</sub> O <sub>4</sub> S <sub>2</sub>		
Molecular Weight:	409.46		
Target:	Antifolate		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (152.64 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.4422 mL	12.2112 mL	24.4224 mL
		5 mM		0.4884 mL	2.4422 mL	4.8845 mL
10 mM			0.2442 mL	1.2211 mL	2.4422 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.08 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.08 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.08 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	LSN 3213128 is a selective, nonclassical, orally bioavailable antifolate with potent and specific inhibitory activity for aminoimidazole-4-carboxamide ribonucleotide formyltransferase (AICARFT), with IC <sub>50</sub> of 16 nM for AICARFT enzyme inhibitor and 19 nM in cells. Anti-tumor activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 16 nM (AICARFT), 19 nM (AICARFT in cells) <sup>[1]</sup>

---

## REFERENCES

---

[1]. Fales KR, et al. Discovery of N-(6-Fluoro-1-oxo-1,2-dihydroisoquinolin-7-yl)-5-[(3R)-3-hydroxypyrrolidin-1-yl]thiophene-2-sulfonamide (LSN 3213128), a Potent and Selective Nonclassical Antifolate Aminoimidazole-4-carboxamide Ribonucleotide Formyltransferase

---

**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](mailto:tech@MedChemExpress.com)

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