

Product Data Sheet

Product Name: LSN 3213128

Cat. No.: GC36486

Chemical Properties

Cas. No. 1941211-99-9

SMILES O=C1NC=CC2=C1C=C(NS(=O)(C3=CC=C(N4CC[C@@H](O)C4)S3)=O)C(F)=C2

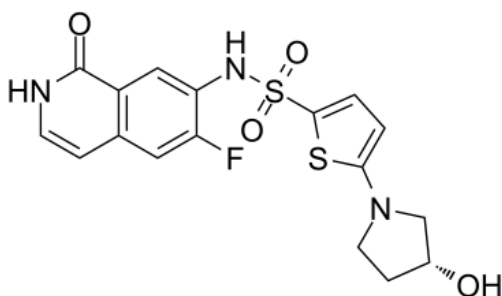
Formula $C_{17}H_{16}FN_3O_4S_2$ M.Wt 409.46

Solubility DMSO: 62.5 mg/mL (152.64 mM) 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.

Structure



Background

LSN 3213128 is a selective, nonclassical, orally bioavailable antifolate with potent and specific inhibitory activity for aminoimidazole-4-carboxamide ribonucleotide formyltransferase (AICARFT), with IC₅₀ of 16 nM for AICARFT enzyme inhibition and 19 nM in cells. Anti-tumor activity[1]. IC₅₀: 16 nM (AICARFT), 19 nM (AICARFT in cells)[1]

[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

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

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Antifolate Aminoimidazole-4-carboxamide Ribonucleotide Formyltransferase (AICARFT) Inhibitor Effective at Tumor Suppression in a Cancer Xenograft Model. J Med Chem. 2017 Dec 14;60(23):9599-9616.

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