

Product Data Sheet

Product Name: S29434
Cat. No.: GC38451

Chemical Properties

Cas. No. 874484-20-5

SMILES O=C(C1=CC=CO1)NCCC2=C(C3=NC=CC=C3C4)N4C5=CC=C(OC)N=C52

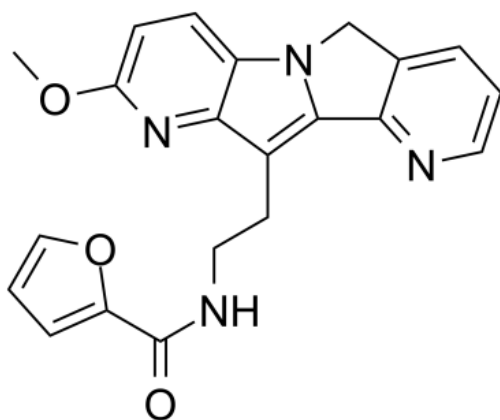
Formula $C_{21}H_{18}N_4O_3$ M.Wt 374.39

Solubility DMSO: 19.29 mg/mL (51.52 mM); Storage Store at -20°C
Water: < 0.1 mg/mL (insoluble)

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



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

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Background

S29434 (NMDPEF) is a potent, competitive, selective and cell-permeable inhibitor of quinone reductase 2 (QR2), with IC₅₀s ranging from 5 to 16 nM for human QR2 at different organizational levels, and has good selectivity for QR2 over QR1. S29434 (NMDPEF) induces autophagy and inhibits QR2-mediated ROS production[1].

[1]. Boutin JA, et al. S29434, a Quinone Reductase 2 Inhibitor: Main Biochemical and Cellular Characterization. Mol Pharmacol. 2019 Mar;95(3):269-285.

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