

Product Data Sheet

Product Name: LDN-192960

Cat. No.: GC33086

Chemical Properties

Cas. No. 184582-62-5

SMILES NCCCC1=C(C=C(OC)C=C2)C2=NC3=CC=C(OC)C=C31

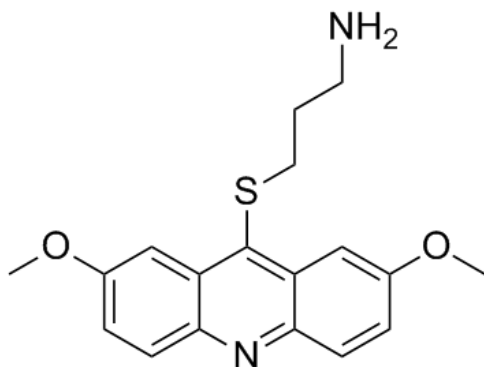
Formula $C_{18}H_{20}N_2O_2S$ M.Wt 328.43

Solubility Soluble in DMSO 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

LDN-192960 is a potent Haspin (Haploid Germ Cell-Specific Nuclear Protein Kinase) inhibitor with an IC₅₀ of 0.010 µM.

A comparison of the profiles of LDN-192960 (compound 3) and 42 suggests that only six kinases, including haspin, are inhibited by both compounds ≥90% at 10 µM[1]. LDN-192960 alone does not cause detectable mitotic exit in the mitotic (phospho)-protein monoclonal-2 (MPM-2) assay in HeLa cells. In the presence of 1 µM ZM447439, even concentrations as low as 0.1 µM LDN-192960 cause

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

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substantial loss of MPM-2 epitopes, and similar results are obtained in the presence of Hesperadin. However, 10 μ M LDN-192960 does not cause mitotic exit in combination with Aurora B inhibition, which is consistent with off-target effects at this higher dose[2].

[1]. Cuny GD, et al. Structure-activity relationship study of beta-carboline derivatives as haspin kinase inhibitors. *Bioorg Med Chem Lett*. 2012 Mar 1;22(5):2015-9. [2]. Fangwei Wang, et al. Haspin inhibitors reveal centromeric functions of Aurora B in chromosome segregation. *J Cell Biol*. 2012 Oct 15; 199(2): 251-268.

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