Screening Libraries

Product Data Sheet

LDN-192960

Cat. No.: HY-13455 CAS No.: 184582-62-5 Molecular Formula: $C_{18}H_{20}N_2O_2S$ Molecular Weight: 328.43

Target: Haspin Kinase; DYRK

Pathway: Cell Cycle/DNA Damage; Protein Tyrosine Kinase/RTK

Storage: Powder -20°C 3 years

> 4°C 2 years -80°C 6 months

In solvent

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 25 mg/mL (76.12 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg |
|------------------------------|-------------------------------|-----------|------------|------------|
| | 1 mM | 3.0448 mL | 15.2239 mL | 30.4479 mL |
| | 5 mM | 0.6090 mL | 3.0448 mL | 6.0896 mL |
| | 10 mM | 0.3045 mL | 1.5224 mL | 3.0448 mL |

Please refer to the solubility information to select the appropriate solvent.

| \mathbf{D} | ו אכו | ~ 1 | ACTI | MTM |
|--------------|-------|----------|-------|------|
| BIU | | U.AI | ACTI' | VIIY |

| Description | LDN-192960 is an inhibitor of Haspin and Dual-specificity Tyrosine-regulated Kinase 2 (DYRK2) with IC $_{50}$ s of 10 nM and 48 nM, respectively ^[1] . |
|---------------------------|--|
| IC ₅₀ & Target | IC50: 10 nM (Haspin); 48 nM (DYRK2) ^[1] |
| In Vitro | LDN-192960 (10 μ M) is selective and inhibits ten of the other kinases by \geq 90%, with only five being potently inhibited (IC ₅₀ <1 μ M), including CLK1 (IC ₅₀ =0.21 μ M), DYRK1A (IC ₅₀ =0.10 μ M), DYRK2 (IC ₅₀ =2 nM), DYRK3 (IC ₅₀ =19 nM) and PIM1 (IC ₅₀ =0.72 μ M) [1]. LDN-0192960 (0-5 μ M; 2 hours) demonstrates that the classical Haspin inhibition phenotype by reducing levels of p-Thr3H3 in HeLa cells overexpressing Haspin with an EC ₅₀ of 1.17 μ M ^[2] . LDN-0192960 (0-1 μ M; 1 hour incubation in the presence of nocodazole and MG132) demonstrates the classical Haspin inhibition phenotype by reducing levels of p-Thr3H3 in HeLa cells synchronized in mitosis with an EC ₅₀ of 0.02 μ M ^[2] . |

| | | | YRK2 kinase inhibitors. Bioorg Med Ch urr Med Chem. 2017;24(21):2276-2293. | |
|----------------------------------|-----------------------------|----------------------------------|---|----------|
| Katrin Kestav, et al. Structure, | Roles and Inhibitors of a M | itotic Protein Kinase Haspin. Cr | urr Med Chem. 2017;24(21):2276-2293. | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | edical applications. For research | |
| Т | Tel: 609-228-6898 | Fax: 609-228-5909 | E-mail: tech@MedChemExp | ress.com |
| | Address: 1 [| Deer Park Dr, Suite Q, Monm | outh Junction, NJ 08852, USA | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Page 2 of 2 www.MedChemExpress.com