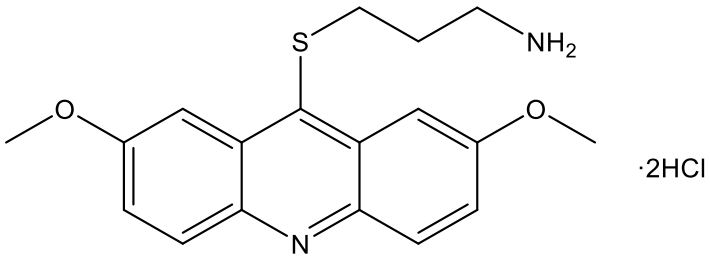
Catalog # 10-4836

LDN-192960 2HCl

CAS# 184582-62-5

3-(2,7-Dimethoxyacridin-9-yl)sulfanylpropan-1-amine dihydrochloride

Lot # FBS3066



LDN-192960 is potent inhibitor of Haspin (IC_{50} = 10 nM), DYRK2 (IC_{50} = 2 nM). And DYRK3 (IC_{50} = 19 nM).[1,2] It induced cytotoxicity and growth inhibition in multiple myeloma and triple negative breast cancer cells and triple negative breast cancer mouse allo/xenografts via partial inhibition of 26S proteasome activity.[3]

1) Patnaik *et al*. (2008), *Identification of Small Molecules Inhibitors of the Mitotic Kinase Haspin by High Throughput Screening using a Homogenous Time-Resolved Fluorescence Resonance Transfer Assay;* J. Biomol. Screen., **13** 1025
2) Cuny *et al*. (2010), *Structure-activity relationship study of acridine analogs as haspin and DYRK2 kinase3 inhibitors;* Bioorg. Med. Chem. Lett., **20** 3491
3) Banerjee *et al*. (2019), *Inhibition of dual-specificity tyrosine phosphorylation-regulated kinase 2 perturbs 26S proteasome-addicted neoplastic progression;* Proc. Natl. Acad. Sci. USA, **116** 24881

PHYSICAL DATA

Molecular Weight:	401.35
Molecular Formula:	$C_{18}H_{20}N_2O_2S \cdot 2HCl$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml), water (2 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 1 month.

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