LKT Laboratories, Inc.

SB-590885

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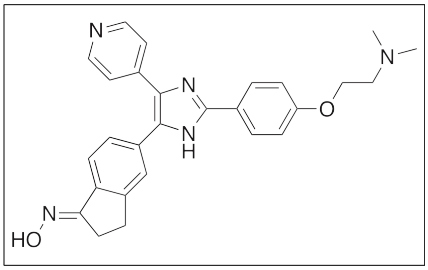
Product Information

Product ID S0459
CAS No. 405554-55-4
Chemical Name (E)-5-(2-(4-(2-(dimethylamino)ethoxy)phenyl)-4-(pyridin-4-yl)-1H-imidazol-5-yl)-2,3-dihydroinden-1-one oxime
Synonym



Formula $C_{27}H_{27}N_5O_2$
Formula Wt. 453.54
Melting Point
Purity ≥97%
Solubility

DMSO	5 mg/mL (11.02 mM)
Water	Insoluble
Ethanol	Insoluble

Store Temp -20˚C
Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
S0459	1 mg
S0459	5 mg

Description SB-590885 is a triarylimidazole that selectively inhibits Raf kinase and is a particularly potent inhibitor of B-Raf. SB-590885 exhibits anticancer chemotherapeutic activity through its ability to stabilize the oncogenic B-Raf kinase domain in an active configuration, therefore inhibiting downstream MAPK activation. SB-590885 also limits tissue damage after cerebral ischemia, displaying neuroprotective benefit.

References

Ahnstedt H, Säveland H, Nilsson O, et al. Human cerebrovascular contractile receptors are upregulated via a B-Raf/MEK/ERK-sensitive signaling pathway. BMC Neurosci. 2011 Jan 11;12:5. PMID: 21223556.

King AJ, Patrick DR, Batorsky RS, et al. Demonstration of a genetic therapeutic index for tumors expressing oncogenic BRAF by the kinase inhibitor SB-590885. Cancer Res. 2006 Dec 1;66(23):11100-5. PMID: 17145850.