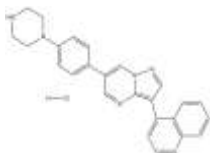


PRODUCT: LDN193189

ALTERNATE NAME: 6-(4-(2-(piperidin-1-yl)ethoxy)phenyl)-3-(pyridin-4-yl)pyrazolo[1,5-a]pyrimidine, hydrochloride; DM-3189

CATALOG #: 1995-5, 25, 50

AMOUNT: 5 mg, 25 mg, 50 mg

STRUCTURE:

MOLECULAR FORMULA: C₂₅H₂₂N₆.HCl

MOLECULAR WEIGHT: 442.94

CAS NUMBER: 1062368-24-4 (free base)

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (10 mM)

PURITY: ≥97% by HPLC

STORAGE: Store at -20 °C. Protect from light.

DESCRIPTION: Cell-permeable. LDN193189 is a small molecule inhibitor of BMP type I receptors ALK2 and ALK3 (IC₅₀ = 5 nM and 30 nM respectively). It only weakly inhibits ALK4, ALK5, and ALK7. LDN193189 functions primarily through prevention of Smad1, Smad5, and Smad8 phosphorylation. BMP signaling coordinates developmental patterning and has essential physiological roles in mature organisms. LDN-193189 has been used to reduce ectopic ossification in a mouse model. The role of BMP2 signals in the growth and angiogenesis of non-small-cell lung carcinoma (NSCLC) also suggest LDN-193189 may be a potent inhibitor of lung tumors.

REFERENCE: Boergemann, J.H., *et al.* (2010). *Int. J. Biochem. Cell Biol.* **42**, 1802-1807.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

A83-01 (**Cat. No. 1725-1**)

EZSolution™ A83-01 (**Cat. No. 1989-1**)

Dorsomorphin (**Cat. No. 1686-5**)

SB-431542 (**Cat. No. 1674-1**)

EZSolution™ SB-431542 (**Cat. No. 1872-1**)

Sodium Butyrate (**Cat. No. 1609-100, 1000**)

StemBoost™ Reprogramming Cocktail Set I (**Cat. No. K869-1ML, 5ML, 1set**)

StemBoost™ Reprogramming Cocktail Set II (**Cat. No. K870-1ML, 5ML, 1set**)

StemBoost™ YPAC Cocktail Set (**Cat. No. K871-1ML, 5ML, 1set**)

Thiazovivin (**Cat. No. 1681-1,5**)

EZSolution™ Thiazovivin (**Cat. No. 1736-1**)

Tranylcypromine Hemisulfate (Parnate) (**Cat. No. 1816-25,100**)

Valproic Acid, Sodium Salt (**Cat. No. 1647-200**)

Y-27632,2 HCl (**Cat. No. 1596-1, 5, 50**)

EZSolution™ Y-27632, HCl (**Cat. No. 1784-5**)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**