

LDN193189

Cat. No. CEI-0399

Lot. No. (See product label)

Introduction

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.

Synonyms

DM-3189

Product Information

Appearance

White solid

CAS No.

1062368-24-4(freebase)

Molecular Formula

C₂₅ H₂₂ N₆ .HCl

Chemical Name

6-(4-(2-(piperidin-1-yl)ethoxy)phenyl)-3-(pyridin-4-yl)pyrazolo[1,5-a]pyrimidine, hydrochloride

Molecular Weight

265.3

Purity

>98%

Targets

ALK2, ALK3

Solubility

DMSO or EtOH

Storage and Shipping Information

Storage

-20 centigrade

Shipping Conditions

RT