Creative Enzymes®

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	C 25 H 22 N 6 .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