Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Varespladib

Catalog No: tcsc1018

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
172732-68-2

Formula:
$C_{21}H_{20}N_2O_5$

Pathway:
Metabolic Enzyme/Protease

Target:
Phospholipase

Purity / Grade:
>98%

Solubility:
H2O :

Alternative Names:
LY315920

Observed Molecular Weight:
380.39

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Product Description

LY315920 (Varespladib) is a potent and selective human non-pancreatic secretory phospholipase A2 (sPLA) inhibitor with IC50 of 7 nM.

IC50 value: 7 nM

Target: sPLA2

in vitro: LY315920 exhibits the significant inhibitory effect on sPLA2 activity in serum from various species including rat, rabbit, guinea pig and human with IC50 of 8.1 nM, 5.0 nM, 3.2 nM and 6.2 nM, respectively. [2] In BAL cells challenged with human sPLA2, LY315920 at doses ranging from 0.1 μM–3 μM reduces the formation of thromboxane mediated by human sPLA2 in a concentration-dependent manner with an IC50 of approximately 0.8 μM. [2] In human conjunctival epithelial cell line (HCjE), LY315920 (10 μM) significantly inhibits all-trans-retinoic acid (RA) -induced membrane-associated mucin MUC16 expression by 100% at 24 hours and 99% at 48 hours. [3]

in vivo: Ex vivo, LY315920 at doses ranging from 3 mg/kg to 30 mg/kg via i.v. inhibits human sPLA2-induced release of thromboxane from guinea pig BAL cells with ED50 of 16.1 mg/kg. [2] In Transgenic Mice Expressing Human sPLA2, both oral and i.v. administration of LY315920 (0.3 mg/kg–3 mg/kg) abolishes serum sPLA2 activity in a dose and time dependent manner. [2]