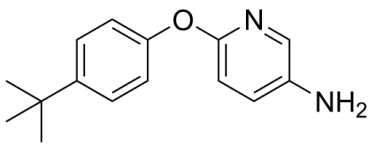
Data Sheet

Product Name:	Limantrafin
Cat. No.:	CS-0109594
CAS No.:	218457-67-1
Molecular Formula:	$C_{15}H_{18}N_2O$
Molecular Weight:	242.32
Target:	Notch
Pathway:	Neuronal Signaling; Stem Cell/Wnt
Solubility:	DMSO : 100 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

Limantrafin is a first-in-class, orally active **protein-protein interaction (PPI)** inhibitor of the **NOTCH** transcriptional activation complex. Limantrafin has anti-tumor activity[1][2][3][4]. IC50 & Target:notch signaling pathway[1] ***In Vitro:*** Limantrafin acts as a pan-NOTCH inhibitor by targeting NOTCH transcriptional activation complex[2].
Limantrafin can block NOTCH signaling in human T cell acute lymphoblastic leukemia cancer cell lines[2].
Limantrafin exhibits anti-tumor efficacy in GSI resistant T-ALL cell lines[2].
In Vivo: Limantrafin inhibits NOTCH dependent cellular processes in mice[2].
Limantrafin blocks in vivo growth of PDX models of T-ALL[2].
Limantrafin (25 mg/kg; i.p./p.o.; 2x daily; for 2 weeks) inhibits growth of GSI/Mab resistant triple negative breast cancer[3].
Limantrafin exhibits anti-tumor activity in xenograft models of human T-ALL and mouse mammary tumors[3].

References:

[1]. Freddy Radtke, et al. Inhibitors of notch signalling pathway and use thereof in treatment of cancers. US9296682B2.

[2]. R.Lehal, et al. Development of a novel first-in-class oral inhibitor of the NOTCH pathway.

[3]. Rajwinder Lehal, et al. Non clinical pharmacology, pharmacokinetics and safety profiling of CB-103: A novel first-in-class small molecule inhibitor of the NOTCH pathway.

[4]. Jose Manuel Perez Garcia, et al. First-in-human phase 1-2A study of CB-103, an oral Protein-Protein Interaction Inhibitor targeting pan-NOTCH signalling in advanced solid tumors and blood malignancies.

CAIndexNames:

3-Pyridinamine, 6-[4-(1,1-dimethylethyl)phenoxy]-

SMILES:

NC1=CC=C(OC2=CC=C(C(C)(C)C)C=C2)N=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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