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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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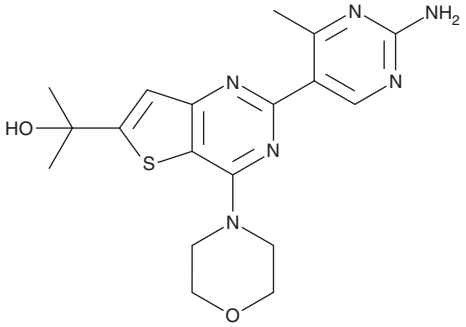
PRODUCT INFORMATION

GNE-490

Item No. 41120



CAS Registry No.:	1033739-92-2
Formal Name:	2-(2-amino-4-methyl-5-pyrimidinyl)-α,α-dimethyl-4-(4-morpholinyl)-thieno[3,2-d]pyrimidine-6-methanol
MF:	$C_{18}H_{22}N_6O_2S$
FW:	386.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

GNE-490 is supplied as a solid. A stock solution may be made by dissolving the GNE-490 in the solvent of choice, which should be purged with an inert gas. GNE-490 is soluble (≥10 mg/ml) in DMSO.

Description

GNE-490 is an inhibitor of PI3K (IC_{50}s = 3.5, 25, 5.2, and 15 nM for PI3Kα, PI3Kβ, PI3Kδ, and PI3Kγ, respectively).[1] It is selective for PI3K over mTOR (IC_{50} = 740 nM) and a panel of 142 kinases at 1 µM. GNE-490 (0.4 µM) reduces cell migration by, the number of vessel outgrowths from, and induces apoptosis in, human umbilical vein endothelial cells (HUVECs).[2] It increases the length of circadian rhythms in zebrafish larvae.[3] GNE-490 (30 mg/kg) decreases vascularization and tumor growth in a PC3 prostate cancer mouse xenograft model.[2]

References

1. Sutherlin, D.P., Sampath, D., Berry, M., *et al.* Discovery of (thienopyrimidin-2-yl)aminopyrimidines as potent, selective, and orally available pan-PI3-kinase and dual pan-PI3-kinase/mTOR inhibitors. *J. Med. Chem.* **53(3)**, 1086-1097 (2010).
2. Sampath, D., Oeh, J., Wyatt, S.K., *et al.* Multimodal microvascular imaging reveals that selective inhibition of class I PI3K is sufficient to induce an antivascular response. *Neoplasia* **15(7)**, 694-711 (2013).
3. Mosser, E.A., Chiu, C.N., Tamai, T.K., *et al.* Identification of pathways that regulate circadian rhythms using a larval zebrafish small molecule screen. *Sci. Rep.* **9(1)**, 12405 (2019).

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