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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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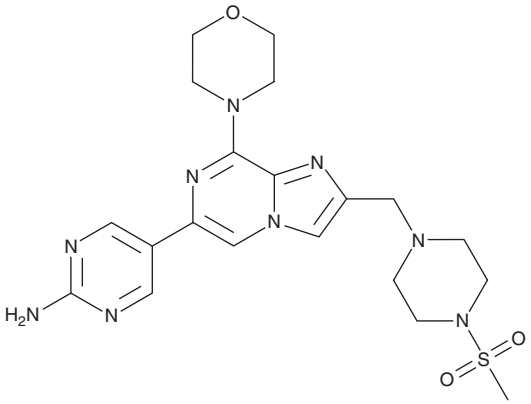
PRODUCT INFORMATION

ETP-46321

Item No. 37330



CAS Registry No.:	1252594-99-2
Formal Name:	5-[2-[[4-(methylsulfonyl)-1-piperazinyl]methyl]-8-(4-morpholinyl)imidazo[1,2-a]pyrazin-6-yl]-2-pyrimidinamine
MF:	$C_{20}H_{27}N_9O_3S$
FW:	473.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 270 nm
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

ETP-46321 is supplied as a solid. A stock solution may be made by dissolving the ETP-46321 in the solvent of choice, which should be purged with an inert gas. ETP-46321 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of ETP-46321 in these solvents is approximately 10 mg/ml.

Description

ETP-46321 is an inhibitor of PI3K p110α and p110δ (apparent K_is = 2.3 and 14.2 nM, respectively).[1] It is selective for PI3K p110α and p110δ over p110β and p110γ (apparent K_is = 170 and 179 nM, respectively), as well as a panel of 288 kinases at 1 µM. ETP-46321 inhibits Akt phosphorylation in U2OS cells (IC_{50} = 8.3 nM). *In vivo*, ETP-43621 (50 mg/kg) reduces tumor volume in a K-Ras^{G12V}-driven murine lung tumor model. It also reduces anti-collagen IgG1 and IgG2a production, swelling, and joint rigidity in a mouse model of collagen-induced arthritis.[2]

References

1. González, S.M., Hernández, A.I., Varela, C., *et al.* Identification of ETP-46321, a potent and orally bioavailable PI3K α, δ inhibitor. *Bioorg. Med. Chem. Lett.* **22(10)**, 3460-3466 (2012).
2. Aragoneses-Fenoll, L., Montes-Casado, M., Ojeda, G., *et al.* ETP-46321, a dual p110α/δ class IA phosphoinositide 3-kinase inhibitor modulates T lymphocyte activation and collagen-induced arthritis. *Biochem. Pharmacol.* **106**, 56-69 (2016).

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