



Data Sheet

Research Use Only

Compound Name

PIK-75 Hydrochloride

Catalog Number

SM76

Activity

PIK-75, free base, is a cell-permeable selective inhibitor of PI 3-kinase p110 α .

Purity

>99%

Formula

C₁₆H₁₄BrN₅O₄S.HCl

Solubility

DMSO

Alternative Names

PI3-Kinase α Inhibitor VIII, 2-Methyl-5-nitrobenzenesulfonic acid 2-[(6-bromoimidazo[1,2-a]pyridin-3-yl)methylene]-1-methylhydrazide hydrochloride

Effect

This molecule inhibits production of PIP2 and PIP3 in adipocytes, phosphorylation of Akt and also activation of mTORC1. It has been studied that PIK-75 significantly reduces leukemia burden and increases the survival of mice engrafted with human acute myeloid leukemia.

CAS

372196-77-5

Molecular Weight

488.74

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Kingham, E. and Welham, M. 2009. J Cell Sci. 122:2311-2321. PMID: 19509054
2. Yi, YW., et al. 2013. Mol Carcinog. 52(9): 667-675. PMID: 22488590
3. Thomas, D., et al. 2013. Blood. 122(5): 738-748. PMID: 23775716