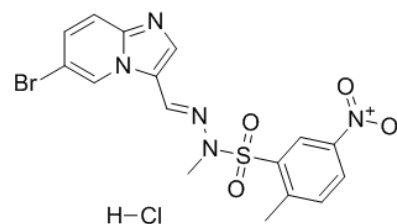


Product Name : PIK-75
Cat. No. : PC-43460
CAS No. : 372196-77-5
Molecular Formula : C₁₆H₁₅BrClN₅O₄S
Molecular Weight :
Target : DNA-PK
Solubility : 10 mM in DMSO



Biological Activity

PIK-75 is a potent, isoform-selective p110 α inhibitor with IC₅₀ of 0.3 nM, displays >100-fold selectivity over p110 β , p110 δ and PI3K C2b; blocks the phosphorylation of PKB induced by insulin on both Ser473 and Thr308 in CHO-IR cell (IC₅₀=78 nM), inhibits PI3K activation associated with dramatic suppression of downstream signaling events, including AKT phosphorylation, IKK activation, and NF-kappaB transcription; potently and dose dependently inhibits in vitro and in vivo production of TNF-alpha and IL-6, diminishes the induced expression of human endothelial cell adhesion molecules (E-selectin, ICAM-1, and VCAM-1), and blocks human monocyte-endothelial cell adhesion; exhibits significant anti-tumor effectiveness in vivo.

References

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Zheng Z, et al. *Mol Pharmacol.* 2011 Oct;80(4):657-64.
Hayakawa M, et al. *Bioorg Med Chem.* 2007 Sep 1;15(17):5837-44.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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