

PI4K

Phosphatidylinositol 4 kinases; PI4 kinases

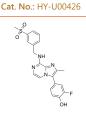
Phosphatidylinositol 4-kinases (PI4Ks) catalyze the synthesis of phosphatidylinositol 4-phosphate (PI4P), an important intermediate for the synthesis of membrane polyphosphoinositides, regulators of multiple cellular functions. PI4P defines the membranes of Golgi and trans-Golgi network (TGN) and regulates trafficking to and from the Golgi. Based on enzymatic differences, two classes of PI4K have been distinguished termed Types II (PI4KII) and III (PI4KIII), and each of which contains α and β isoforms.

PI4KII alpha and beta have similar biochemical properties. PI4KIIIs (α - and β -forms) are soluble enzymes structurally related to PI3-kinases, and sensitive to PI3-kinase inhibitors, such as Wortmannin. PI4KIIs produce PtdIns 4-phosphate, an early key signaling molecule in phosphatidylinositol cycle, which is indispensable for T cell activation. PI4KIIIs plays a key role in the production of replication complexes (viral factories) of a number of positive-sense RNA viruses and represents a potential target for novel pan-viral therapeutics.

PI4K Inhibitors

BF738735

BF738735 is a phosphatidylinositol 4-kinase III beta (PI4KIII β) inhibitor with an IC_{so} of 5.7 nM.



99 15% Purity:

Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg **BOR-695**

(NVP-BQR695)

BQR-695 is a PI4KIIIB inhibitor with ICsos of 80 and 3.5 nM for human PI4KIIIß and Plasmodium variant of PI4KIIIβ, respectively.



Cat. No.: HY-18748

99 87% Purity:

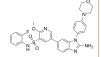
Clinical Data: No Development Reported

10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

GSK-A1

Cat. No.: HY-125118

GSK-A1 is a selective type III phosphatidylinositol 4-kinase PI4KA (PI4KIII α) inhibitor with a pIC₅₀ of 8.5-9.8. GSK-A1 inhibits PtdIns(4,5)P2 resynthesis with an IC₅₀ of about 3 nM.



Purity: >98%

Clinical Data: No Development Reported

1 mg, 5 mg

KDU691

Cat. No.: HY-12912

KDU691, an imidazopyrazine with potent anti-parasitic activity against blood stage schizonts, gametocytes and liver stages, is a Plasmodium PI4K inhibitor. KDU691 selectively inhibits dihydroartemisinin-pretreated

Plasmodium falciparum ring-stage parasites.

Purity:

Clinical Data: No Development Reported

10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

KDU731

Cat. No.: HY-103583

KDU731, an orally active C. parvum PI4K inhibitor with an IC₅₀ value of 25 nM, blocks Cryptosporidium infection in vitro and in vivo. KDU731 is a promising drug candidate for the treatment of diarrhea caused by Cryptosporidium and meets a broad range of safety.



Purity: 98.0%

Clinical Data: No Development Reported Size: 1 mg, 5 mg, 10 mg

MMV390048

Cat. No.: HY-106005

MMV390048 is a representative of a new chemical class of Plasmodium PI4K inhibitor (K_dapp=0.3 uМ).

99.17% Purity: Clinical Data: Phase 2

10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

PI-273

Cat. No.: HY-103489

PI-273 is a first reversibly and specific phosphatidylinositol 4-kinase (PI4KIIα) inhibitor with an IC_{so} of 0.47 $\mu\text{M}.$ PI-273 can inhibit breast cancer cell proliferation, block the cell cycle and induce cell apoptosis.

Purity: ≥98.0%

Clinical Data: No Development Reported

10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg Size

PI4KIII beta inhibitor 3

Cat. No.: HY-15679

PI4KIII beta inhibitor 3 is a novel and high effective PI4KIIIβ inhibitor with IC_{so} of 5.7 nM.



99.44% Purity:

Clinical Data: No Development Reported 10 mM \times 1 mL, 2 mg, 5 mg, 10 mg

PI4KIIIbeta-IN-10

Cat. No.: HY-100198

PI4KIIIbeta-IN-10 is a potent PI4KIIIβ inhibitor with an IC₅₀ of 3.6 nM.

Purity: 99.84%

Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg

PI4KIIIbeta-IN-9

Cat. No.: HY-19798

PI4KIIIbeta-IN-9 is a potent PI4KIIIβ inhibitor with an IC_{s0} of 7 nM. PI4KIIIbeta-IN-9 also inhibits PI3Kδ and PI3Ky with IC_{so}s of 152 nM and 1046 nM, respectively.



99.01%

Clinical Data: No Development Reported 1 mg, 5 mg, 10 mg, 25 mg, 50 mg

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PIK-93

Cat. No.: HY-12046

PIK-93 is the first potent, synthetic PI4K (PI4KIII β) inhibitor with IC $_{\rm 50}$ of 19 nM, and also inhibits PI3K γ and PI3K α with IC₅₀ of 16 nM and 39 nM, respectively.

Purity: 99.37%

Clinical Data: No Development Reported 10 mM × 1 mL, 5 mg, 10 mg, 50 mg Size:

T-00127_HEV1

Cat. No.: HY-108313

T-00127_HEV1 is a phosphatidylinositol 4-kinase III beta (PI4KB) inhibitor with an IC₅₀ of 60 nM.



Clinical Data: No Development Reported

Purity: 99.97%

 $10 \text{ mM} \times 1 \text{ mL}, 1 \text{ mg}, 5 \text{ mg}$ Size:

UCB9608

Cat. No.: HY-112613

UCB9608 is a potent, selective and orally active PI4KIIIβ inhibitor, with an IC₅₀ of 11 nM, selective over PI3KC2 α , β , and γ lipid kinases. UCB9608 improves metabolic stability and exhibits excellent pharmacokinetic profile, acts as a potent immunosuppressive agent.

Purity:

Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

UCT943

Cat. No.: HY-112435

UCT943 is a next-generation Plasmodium falciparum PI4K inhibitor. UCT943 inhibits the P. vivax PI4K (PvPI4K) enzyme with an IC_{50} of 23 nM.



Purity: 98.70%

Clinical Data: No Development Reported 5 mg, 10 mg, 50 mg