

PKD

Protein kinase D

HDAC Inhibitor:
Vorinostat (SAHA)



HDAC (Histone deacetylase)

PKD (Protein kinase D) is an evolutionarily conserved protein kinase family with structural, enzymological, and regulatory properties different from the PKC family members. Signaling through PKD is induced by a remarkable number of stimuli, including G-protein-coupled receptor agonists and polypeptide growth factors. PKD family of serine/threonine protein kinases has three members: PKD1, PKD2, PKD3. PKD1, the most studied member of the family, is increasingly implicated in the regulation of a complex array of fundamental biological processes, including signal transduction, cell proliferation and differentiation, membrane trafficking, secretion, immune regulation, cardiac hypertrophy and contraction, angiogenesis, and cancer. PKD mediates such a diverse array of normal and abnormal biological functions via dynamic changes in its spatial and temporal localization, combined with its distinct substrate specificity.

PKD Inhibitors & Modulators

CID 2011756

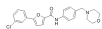
Cat. No.: HY-13454

Bioactivity: CID 2011756 is an ATP competitive **PKD** inhibitor, with an **IC₅₀** of 3.2 μ M for PKD1 in cell free assay, and also shows cellular pan-PKD inhibitory activity against PKD2 and PKD3 (**IC₅₀**, 0.6 and 0.7 μ M, respectively). CID 2011756 also has antitu...

Purity: 95.52%

Clinical Data: No Development Reported

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg



CID755673

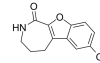
Cat. No.: HY-12239

Bioactivity: CID755673 is a potent **PKD** inhibitor with **IC₅₀s** of 182 nM, 280 nM and 227 nM for **PKD1**, **PKD2** and **PKD3**, respectively.

Purity: 99.54%

Clinical Data: No Development Reported

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg



CRT0066101 dihydrochloride

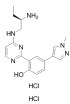
Cat. No.: HY-15698A

Bioactivity: CRT0066101 dihydrochloride is a potent and specific **PKD** inhibitor with **IC₅₀** values of 1, 2.5 and 2 nM for PKD1, 2, and 3 respectively.

Purity: 98.94%

Clinical Data: No Development Reported

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg



kb NB 142-70

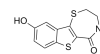
Cat. No.: HY-15528

Bioactivity: kb NB 142-70 is a potent **PKD** inhibitor, with **IC₅₀s** of 28.3, 58.7 and 53.2 nM for PKD1, PKD2, and PKD3, respectively. kb NB 142-70 also has antitumor activity.

Purity: 98.24%

Clinical Data: No Development Reported

Size: 10mM x 1mL in DMSO,
10 mg, 50 mg



kb-NB77-78

Cat. No.: HY-16698

Bioactivity: kb-NB77-78 is an analogue of CID797718, but shows no PKD inhibitory activity ^[1].

Purity: 99.97%

Clinical Data: No Development Reported

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg

