Inhibitors of the PI3 Kinase Signaling Pathway

The phosphatidylinositol 3-kinase (PI3K) family of enzymes are involved in cell growth, proliferation, differentiation, motility, survival, and intracellular trafficking, which also makes them relevant to cancer research. Cayman carries many of the classical, broad-specificity inhibitors, as well as numerous newly developed compounds, which demonstrate potent isoform-specific activity.

PI3K

See all PI3K inhibitors at www.caymanchem.com

Item No.	Item Name	Target	Activity
10009210	PIK-75 (hydrochloride)	p110α	IC_{50} = 5.8 nM
10007349	TGX-221	p110β	IC_{50} = 50 nM in platelets
15279	CAL-101	p110δ	IC_{50} = 2.5 nM
11589	IC-87114	p110δ	IC_{50} = 0.5 µM
11587	NVP-BKM120	p110α and β	IC_{50} = 52 and 166 nM
11600	GDC 0941	p110α, β, δ, and γ	IC_{50}s = 3, 33, 3, and 75 nM
10010749	PIK-90	p110α, δ, and γ	IC_{50}s = 11, 58, and 18 nM
11569	GSK 1059615	PI3K-α	IC_{50} = 2 nM
10010177	PI3-Kinase α Inhibitor 2	PI3K-α	IC_{50} = 2 nM
13622	AS-041164	PI3K-γ	IC_{50} = 70 nM
10009052	AS-252424	PI3K-γ	IC_{50} = 30 nM
10010175	AS-604850	PI3K-γ	IC_{50} = 0.25 µM
10007707	AS-605240	PI3K-γ	IC_{50} = 8 nM
10009078	CAY10505	PI3K-γ	IC_{50} = 30 nM
16800	IPI-145	PI3K-γ and δ	IC_{50}s = 0.24 and 50 nM
70920	LY294002	PI3K	IC_{50} = 1.4 µM
13242	3-Methyladenine	PI3K	Inhibits the initial phase of the autophagic process
13645	PX 866	PI3K	IC_{50} = 0.1-88 nM
10010591	Wortmannin	PI3K	IC_{50} = 1-10 nM
13812	17β-hydroxy Wortmannin	PI3K	IC_{50} = 2.7 nM

For more information on **Inhibitors of the PI3 Kinase Signaling Pathway** and to view our full line of products please visit **www.CaymanChem.com**

Dual PI3K/mTOR

See all Dual PI3K/mTOR inhibitors at www.caymanchem.com

Item No.	Item Name	Target	Activity
13838	CAY10626	PI3Kα/mTOR	IC_{50}s = 0.9 and 0.6 nM
14881	NU 7441	PI3K/mTOR	IC_{50}s = 5 and 1.7 µM
10565	NVP-BEZ235	PI3K/mTOR	Low nM IC_{50} values
15017	PF-04691502	PI3Kα, β, δ, γ/mTOR	K_is = 1.8, 2.1, 1.6, and 1.9 nM/K_i = 16 nM
10009209	PI-103	p110α, β, δ, γ/mTORC1 and 2	IC_{50}s = 8, 88, 48, 150 nM/IC_{50}s = 20 and 83 nM
16294	VS-5584	PI3Kα, β, γ, δ/mTOR	IC_{50}s = 16, 68, 25, and 42 nM/IC_{50} = 37 nM
13671	Wortmannin-Rapamycin Conjugate	PI3K/mTORC1	Consists of analogs of 17-hydroxy wortmannin (Item No. 13812) and rapamycin (Item No. 13346) conjugated *via* a prodrug linker; tolerated better than an equivalent mixture of the inhibitors
16299	XL 765	PI3K/mTOR	Complete inhibition at 8-16 µM

mTOR

See all mTOR inhibitors at www.caymanchem.com

Item No.	Item Name	Target	Activity
11597	Everolimus	mTORC1 and 2	Complete inhibition in cells at 20 nM
11811	INK128	mTORC1 and 2	IC_{50} = 1.4 µM
13597	Ku-0063794	mTORC1 and 2	IC_{50} = 10 nM
13643	PP242	mTORC1 and 2	IC_{50} = 8 nM
13346	Rapamycin	mTOR	Specifically interacts with the cytosolic FK-binding protein 12 (FKBP12)
11590	Temsirolimus	mTOR	A dihydroxymethyl propionic acid ester of rapamycin with improved solubility
10997	Torin 1	mTORC1 and 2	IC_{50}s = 2 and 10 nM
14185	Torin 2	mTOR	EC_{50} = 0.3 nM
13604	WYE-354	mTORC1 and 2	IC_{50} = 4.3 nM

Akt (PKB)

See all Akt (PKB) inhibitors at www.caymanchem.com

Item No.	Item Name	Target	Activity
10010233	CAY10567	Akt1	Inhibits Akt1 translocation with IC_{50} = ~ 12.5 µM
11593	MK 2206 (hydrochloride)	Akt1 and 2	IC_{50}s = 5 and 12 nM
10010236	ML-9	Akt	IC_{50} = 10-50 µM in rat primary adipocytes
10008112	Perifosine	Akt	Associated with rapidly decreased Akt activation
10876	SC-66	Akt	Facilitates both ubiquitination and deactivation of Akt
10010237	Triciribine	Akt	IC_{50} = ~ 5-10 µM in Akt-overexpressing human cancer cells

PIP_3/Akt PH domain binding

See all PIP_3/Akt PH domain binding inhibitors at www.caymanchem.com

Item No.	Item Name	Target	Activity
10728	PIT-1	PIP_3/Akt PH domain binding	IC_{50} = 31 µM
10727	3,5-dimethyl PIT-1	PIP_3/Akt PH domain binding	IC_{50} = 27 µM