Human Kinome & InhibitorSelect™ Libraries

The InhibitorSelect™ Protein Kinase Inhibitor Libraries provide broad coverage of the human kinome as shown here. The depicted human kinome dendrogram shows 518 kinases classified into five broad groups, 90 families, and 145 subfamilies[1]. Inhibitor coverage was assigned based upon published potency (IC_{50}, EC_{50}, K_d, etc.) of individual kinases. Colored dots denote which library contains an inhibitor with demonstrated potent activity against the designated kinase and do not necessarily reflect known specificity of the inhibitor. Coverage of lipid and atypical kinases is depicted as a separate dendrogram. InhibitorSelect™ Protein Kinase Inhibitor Libraries cover all major kinase families including TK, CMGC, CAMK, AGC, CK1, STE, TKL, as well as Lipid or Atypical kinase families.

Reference:

1. The Protein Kinase Complement of the Human Genome, G. Manning, D. B. Whyte, R. Martinez, T. Hunter, and S. Sudarsanam, Science 6 December 2002: 298 (5600), 1912-1934.

Calbiochem® Signaling Pathway Panels contain carefully selected, cell-permeable and potent small molecules in convenient formats for studying key kinase signaling pathways.

Components	Target	Catalogue No.
InhibitorSelect™ PI 3-K/Akt/mTOR Signaling Pathway Inhibitor Panel (Catalogue No. 124031)		
Akt Inhibitor IV	Akt	124011
Akt Inhibitor VIII, Isozyme-Selective, Akti-1/2	Akt1, Akt2	124018
LY 294002	PI 3-K	440202
LY 303511	Negative control for LY 294002	440203
PDK1/Akt/Flt Dual Pathway Inhibitor	Akt, Flt, PDK1	521275
PI-103	DNA-PK, PI 3-K, mTOR	528100
PI 3-Kγ Inhibitor	PI 3-Kγ	528106
PI 3-Kγ Inhibitor II	PI 3-Kγ	528108
PI 3-Kα Inhibitor IV	PI 3-Kα + β	528111
PI 3-Kα Inhibitor VIII	DNA-Pk, PI 3-Kα	528116
Rapamycin	mTOR, p70 S6	553210
Ro-31-8220	PKC	557520
Wortmannin	PI 3-K Irreversible	681675
InhibitorSelect™ EGFR Signaling Pathway Inhibitor Panel (Catalogue No. 324839)		
Akt Inhibitor VIII, Isozyme-Selective, Akti-1/2	Akt1, Akt2	124018
PD 153035	EGFR	234490
EGFR Inhibitor	EGFR, EGFR Mutants	324674
Et-18-OCH3	PI-PLC	341207
JNK Inhibitor II	JNK	420119
LY 294002	PI 3-K	440202
PD 98059	MEK	513000
PD 168393	EGFR Irreversible	513033
PP2	Src Family	529573
Rapamycin	mTOR, p70 S6	553210
SB 203580 p38	MAPK	559389
AG 490	JAK2, EGFR	658401
ZM 336372	c-Raf	692000
DMSO	-	KP31817
InhibitorSelect™ MAP Kinase Signaling Pathway Inhibitor Panel (Catalogue No. 444189)		
ERK Inhibitor II, FR180204	ERK1, ERK2	328007
JNK Inhibitor II	JNK	420119
JNK Inhibitor IX	JNK2, JNK3	420136
MEK1/2 Inhibitor	MEK1/2	444939
MNK1 Inhibitor	MNK1	454861
MK2a Inhibitor	MK2a	475863
p38 MAP Kinase Inhibitor V	p38, CK1	506156
PD 98059	MEK	513000
Raf Kinase Inhibitor IV	B-Raf	553014
SB 203580 p38	MAPK	559389
Tpl2 Kinase Inhibitor	Tpl2 Kinase	616373
ZM 336372	c-Raf	692000
DMSO	-	KP31817

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