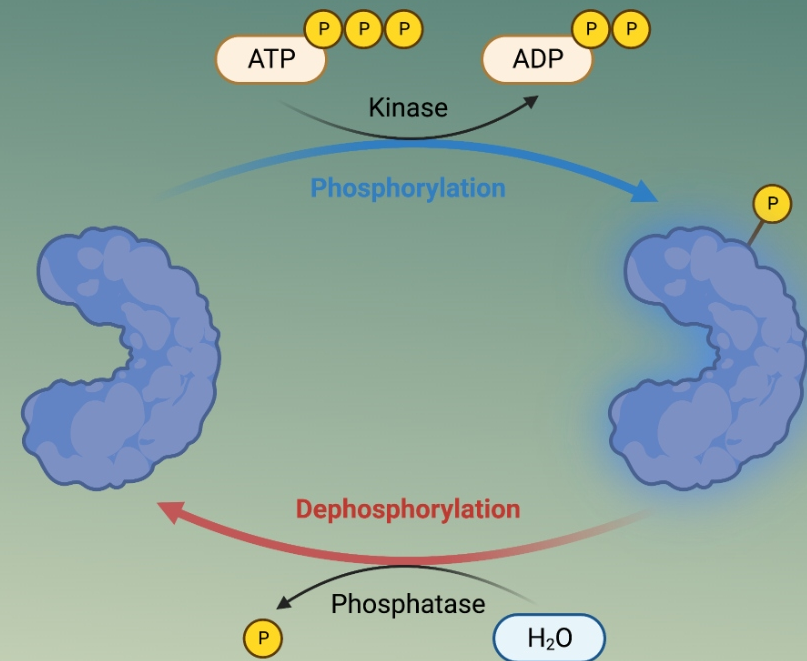


Kinase Inhibitors

Protein kinases are enzymes that catalyze the transfer of phosphate groups from ATP molecules to various substrates. The process is known as phosphorylation. Kinases regulate many cellular functions, so the overaction of protein kinases in cancer cells may cause fast tumor growth. Thus, kinase-inhibiting molecules might act as antitumor agents and can be used in cancer treatments.

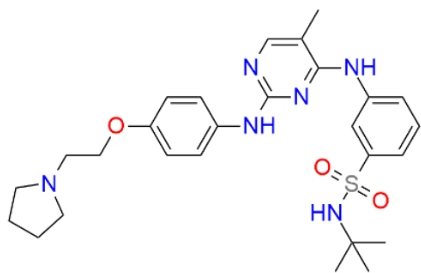
Kinase Inhibitor Library designed by our specialists contains 884 carefully selected small kinase inhibitors. It covers the wide scope of kinase targets and includes approved drugs, highly selective and broad-spectrum inhibitors, and the most recent discoveries.

Related terms: *receptor tyrosine kinase, RTK, nRTK, CAMK, calcium/calmodulin-dependent protein kinase, mitogen-activated protein kinase, MAP, cyclin-dependent kinase, CDK, glycogen synthase kinase, GSK*



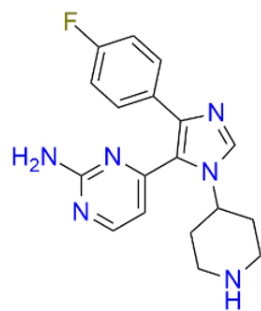
Kinase action on substrate (Created by BioRender.com)

Highlights



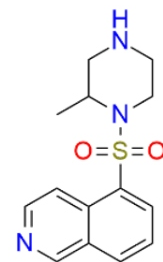
EBC-17140
CAS: 936091-26-8

Fedratinib, approved 2019,
cancer



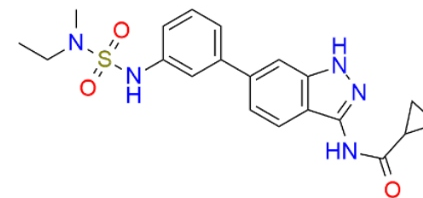
EBC-12783
CAS: 165806-53-1

Selective MAPK-14 inhibitor



EBC-101110
CAS: 141543-62-6

H-7 is a broad spectrum
kinase inhibitor



EBC-47126
CAS: 2471971-94-3

AAK1 and BMP2K inhibitor
(2020)

Library Composition

Name	Occurrence in the library, times
Receptor tyrosine kinases (RTKs)	271
Non-receptor tyrosine kinases (nRTKs)	146
Mitogen-activated protein kinases (MAP kinases)	54
CAMK: Calcium/calmodulin-dependent protein kinases	43
Cyclin-dependent kinase (CDK) family	32
Glycogen synthase kinase (GSK) family	30
CMGC: Containing CDK, MAPK, GSK3, CLK families	29
CAMK-like (CAMKL) family	27
AGC: Containing PKA, PKG, PKC families	22
STE20 family	22
CKI: Casein kinase 1	22

Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase (DYRK) family	•	22
Casein kinase 2 (CK2) family	•	15
Interleukin-1 receptor-associated kinase (IRAK) family	•	15
Protein kinase C (PKC) family	•	14
STE: Homologs of yeast Sterile 7, Sterile 11, Sterile 20 kinases	•	14
Aurora kinase (Aur) family	•	13
RSK family	•	12
DMPK family	•	12
Glycerophospholipid turnover	•	12
RAF family	•	12
IKK family	•	11
Polo-like kinase (PLK) family	•	10
Receptor serine/threonine kinase (RSTK) family	•	9

Leucine-rich repeat kinase (LRRK) family	•	8
LIM domain kinase (LISK) family	•	7
G protein-coupled receptor kinases (GRKs)	•	6
Phosphatidylinositol 3' kinase-related kinases (PIKK) family	•	6
NIMA (never in mitosis gene a)- related kinase (NEK) family	•	5
WEE family	•	5
Numb-associated kinase (NAK) family	•	5
Mixed Lineage Kinase (MLK) family	•	4
MAPK-Activated Protein Kinase (MAPKAPK) family	•	4
IRE family	•	4
NAK family	•	4
Receptor interacting protein kinase (RIPK) family	•	4
Lipid modifying kinases	•	3

RIO family	•	2
TKL-unique family	•	2
Haspin family	•	1
CAMKK family	•	1
Inositol phosphate turnover	•	1
Alpha kinase family	•	1
TTK family	•	1
Unc-51-like kinase (ULK) family	•	1