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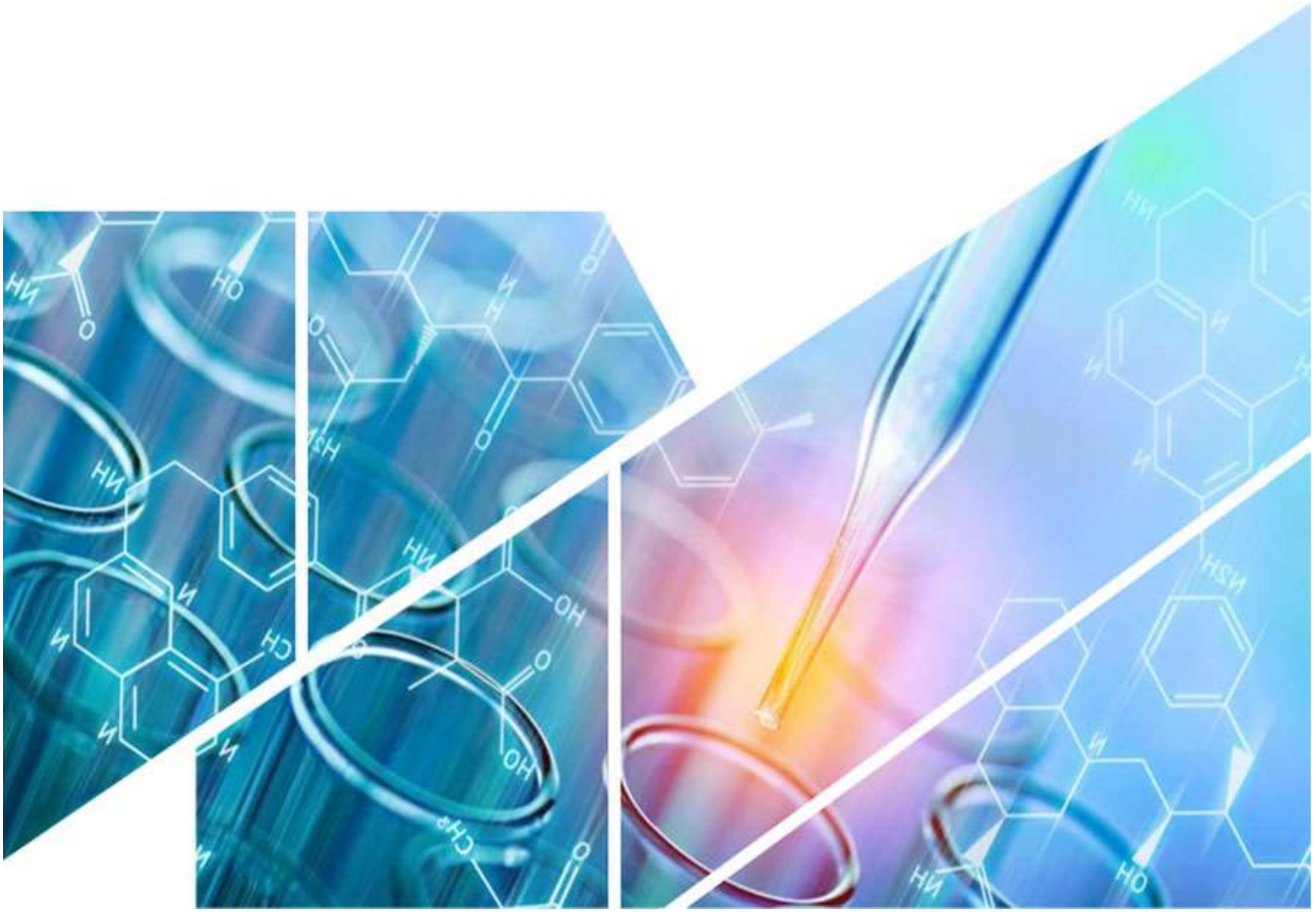
CK1 (Casein kinase 1) Inhibitors

(inhibitors, agonists and modulators)



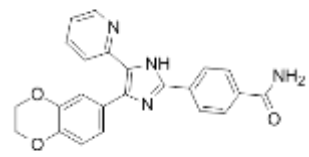
The Casein kinase 1 family of protein kinases is serine/threonine-selective enzymes that function as regulators of signal transduction pathways in most eukaryotic cell types. CK1 isoforms are involved in Wnt signaling, circadian rhythms, nucleo-cytoplasmic shuttling of transcription factors, DNA repair, and DNA transcription. It has 7 isoforms: α, β, γ1, γ2, γ3, δ and ε.

D4476 - CAS 301836-43-1

Catalog Number: 301836-43-1

Molecular Weight: 398.41 **Molecular Formula:** C23H18N4O3

Description: D4476 is a potent, selective ATP-competitive inhibitor of CK1 (casein kinase 1).

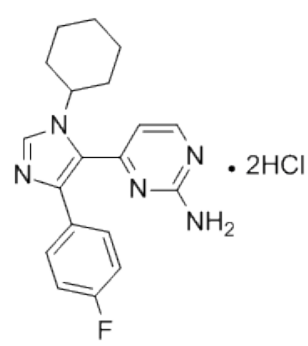


PF-670462 - CAS 950912-80-8

Catalog Number: B0084-272284 **Price:** $198/25 mg

Molecular Weight: 410.32 **Molecular Formula:** C19H22Cl2FN5

Description: PF-670462 is a potent and selective inhibitor of CK1ε in isolated enzyme preparations. It inhibits PER protein nuclear translocation causing phase shifts in circadian rhythms and attenuates methamphetamine-stimulated locomotion in vivo. It less effectively inhibits a wide variety of related or common kinases.

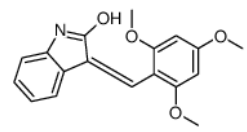


SU5607 (IC261) - CAS 186611-52-9

Catalog Number: 186611-52-9

Molecular Weight: 311.34 **Molecular Formula:** C18H17NO4

Description: IC261, also known as SU5607, is a potent and selective CK1 inhibitor. IC261 triggers the mitotic checkpoint and induces p53-dependent postmitotic effects.

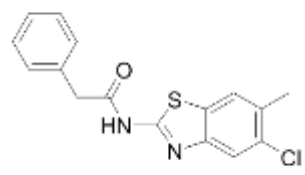


LH846 - CAS 639052-78-1

Catalog Number: 639052-78-1

Molecular Weight: 316.81 **Molecular Formula:** C16H13ClN2OS

Description: LH846 is a selective inhibitor of CK1δ, which displays no inhibitory activity at CK2. It inhibits CK1δ-dependent phosphorylation and degradation of PER1 protein, showing to lengthen the circadian period in U2OS cells, with minimal effect on amplitude.



SR-3029 - CAS 1454585-06-8

Catalog Number: 1454585-06-8

Molecular Weight: 480.45 **Molecular Formula:** C23H19F3N8O

Description: SR-3029, a small molecule inhibitor that targets specificly CK1δ/CK1ε, was effective at reducing the growth of breast cancer in multiple mouse models without any signs of major toxicity. IC50=97 nM