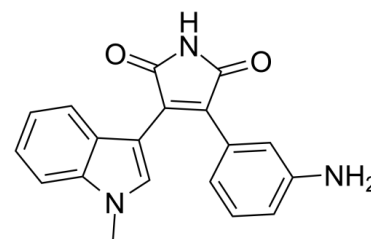


Data Sheet

Product Name:	CP21R7
Cat. No.:	CS-5674
CAS No.:	125314-13-8
Molecular Formula:	C ₁₉ H ₁₅ N ₃ O ₂
Molecular Weight:	317.34
Target:	GSK-3
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt
Solubility:	DMSO : ≥ 32 mg/mL (100.84 mM)



BIOLOGICAL ACTIVITY:

CP21R7 is potent **GSK-3β** inhibitor, with an **IC₅₀** of 1.8 nM; CP21R7 also shows inhibitory activity against **PKCα**, with an **IC₅₀** of 1900 nM. IC₅₀ & Target: IC₅₀: 1.8 nM (GSK-3β), 1900 nM (PKCα)^[1] **In Vitro:** CP21R7 (Compound 9) is a selective inhibitor of GSK-3β, with an IC₅₀ of 1.8 nM; the IC₅₀ of CP21R7 against PKCα is 1900 nM^[1]. CP21R7 (CP21, 3 μM) potently activates canonical Wnt signaling with highest activity. CP21 significantly increases total levels of intracellular β-catenin. CP21 combined with BMP4 induces commitment of hPSCs towards mesoderm^[2].

References:

[1]. Gong L, et al. Discovery of potent and bioavailable GSK-3beta inhibitors. *Bioorg Med Chem Lett*. 2010 Mar 1;20(5):1693-6.

[2]. Patsch C, et al. Generation of vascular endothelial and smooth muscle cells from human pluripotent stem cells. *Nat Cell Biol*. 2015 Aug;17(8):994-1003.

CAIndexNames:

1H-Pyrrole-2,5-dione, 3-(3-aminophenyl)-4-(1-methyl-1H-indol-3-yl)-

SMILES:

O=C1C(C2=CN(C)C3=CC=CC=C23)=C(C4=CC(N)=CC=C4)C(N1)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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