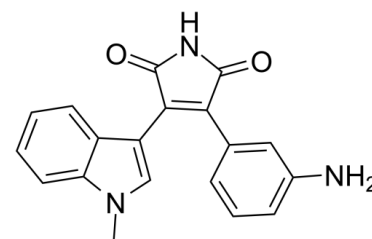


## Data Sheet

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



### BIOLOGICAL ACTIVITY:

CP21R7 is potent **GSK-3β** inhibitor, with an **IC<sub>50</sub>** of 1.8 nM; CP21R7 also shows inhibitory activity against **PKCα**, with an **IC<sub>50</sub>** of 1900 nM. **IC<sub>50</sub> & Target:** IC<sub>50</sub>: 1.8 nM (GSK-3β), 1900 nM (PKCα)<sup>[1]</sup> **In Vitro:** CP21R7 (Compound 9) is a selective inhibitor of GSK-3β, with an **IC<sub>50</sub>** of 1.8 nM; the **IC<sub>50</sub>** of CP21R7 against PKCα is 1900 nM<sup>[1]</sup>. 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<sup>[2]</sup>.

### 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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