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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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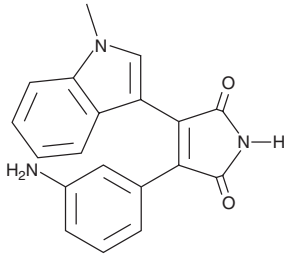
PRODUCT INFORMATION

CP21R7

Item No. 20573

CAS Registry No.:	125314-13-8
Formal Name:	3-(3-aminophenyl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione
MF:	$C_{19}H_{15}N_3O_2$
FW:	317.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 222, 431 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

CP21R7 is supplied as a crystalline solid. A stock solution may be made by dissolving the CP21R7 in the solvent of choice. CP21R7 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of CP21R7 in these solvents is approximately 1 mg/ml.

Description

CP21R7 is a potent and selective inhibitor of GSK3β.[1] It is used as an activator of stem cells prior to the induction of differentiation of stem cells to endothelial and smooth muscle cells.[2-4] GSK3β inhibitors, including CP21R7, can be used with BMP4 to commit human pluripotent stem cells to a mesodermal fate.[3,4]

References

1. Gong, L., Hirschfeld, D., Tan, Y.-C., *et al.* Discovery of potent and bioavailable GSK-3β inhibitors. *Bioorg. Med. Chem. Lett.* **20(5)**, 1693-1696 (2010).
2. Christensen, K., Graf, M., Iacone, R., *et al.* Method for differentiation of pluripotent stem cells into vascular bed cells. US 2015/0017674 A1 (2015), 14/100,831.
3. Patsch, C., Challet-Meylan, L., Thoma, E.C., *et al.* Generation of vascular endothelial and smooth muscle cells from human pluripotent stem cells. *Nat. Cell Biol.* **17(8)**, 994-1003 (2015).
4. Sahara, M., Hansson, E.M., Wernet, O., *et al.* Manipulation of a VEGF-Notch signaling circuit drives formation of functional vascular endothelial progenitors from human pluripotent stem cells. *Cell Res.* **24(7)**, 820-841 (2014).

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