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Produktinformation

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

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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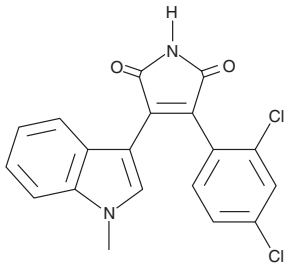
PRODUCT INFORMATION

SB-216763

Item No. 10010246

CAS Registry No.:	280744-09-4
Formal Name:	3-(2,4-dichlorophenyl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione
MF:	$C_{19}H_{12}Cl_2N_2O_2$
FW:	371.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 220, 428 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SB-216763 is supplied as a crystalline solid. A stock solution may be made by dissolving the SB-216763 in the solvent of choice, which should be purged with an inert gas. SB-216763 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of SB-216763 in these solvents is approximately 2.5 and 2 mg/ml, respectively.

SB-216763 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SB-216763 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. SB-216763 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Glycogen synthase kinase 3 (GSK3) is a serine/threonine protein kinase that is inhibited by an assortment of extracellular stimuli including insulin, growth factors, cell specification factors, and cell adhesion. SB-216763 is a potent and selective cell permeable ATP-competitive inhibitor of GSK3α with an IC_{50} value of 34 nM (similar potency for GSK3β).[1] It stimulates glycogen synthesis in Chang human liver cells with an EC_{50} value of 3.6 µM and induces expression of a β-catenin-LEF/Tcf regulated reporter gene in HEK293 cells.[1] SB-216763 protects primary neurons from death induced by the PI3-kinase pathway.[2]

References

1. Coghlan, M.P., Culbert, A.A., Cross, D.A.E., *et al.* Selective small molecule inhibitors or glycogen synthase kinase-3 modulate glycogen metabolism and gene transcription. *Chemistry & Biology* **7(10)**, 793-803 (2000).
2. Cross, D.A.E., Culbert, A.A., Chalmers, K.A., *et al.* Selective small-molecule inhibitors of glycogen synthase kinase-3 activity protect primary neurons from death. *J. Neurochem.* **77**, 94-102 (2001).

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