

SB 216763

Catalog Number :2800944

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: SB216763, SB-216763, SCHEMBL30251

Chemical Name: 3-(2,4-dichlorophenyl)-4-(1-methylindol-3-yl)pyrrole-2,5-dione

Molecular Formula: C₁₉H₁₂Cl₂N₂O₂

Molecular Weight: 371.2

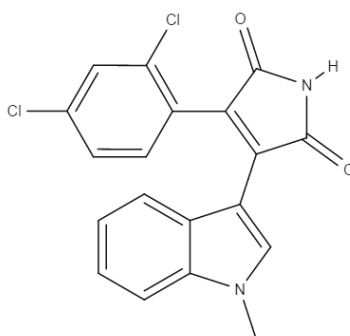
CAS Number: 280744-09-4

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

SB 216763 is a potent and selective ATP-competitive inhibitor of glycogen synthase kinase 3 (GSK-3), including the alpha and beta isozymes. It displays neuroprotectant properties and stimulates glycogen synthesis in liver cells. SB 216763 is reported to be used to maintain the undifferentiated state of mouse embryonic stem cells.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMSO up to 2mg/ml.

References

1. Gross, E. R., Hsu, A. K., Gross, G. J. (2008). Delayed cardioprotection afforded by the glycogen synthase kinase 3 inhibitor SB-216763 occurs via a KATP-and MPTP-dependent mechanism at reperfusion.; *American Journal of Physiology-Heart and Circulatory Physiology*; 294(3), H1497-H1500.
2. Coghlan, M. P., Culbert, A. A., Cross, D. A., Corcoran, S. L., Yates, J. W., Pearce, N. J., ... Holder, J. C. (2000). Selective small molecule inhibitors of glycogen synthase kinase-3 modulate glycogen metabolism and gene transcription.; *Chemistry biology*; 7(10), 793-803.
3. Kirby, L. A., Schott, J. T., Noble, B. L., Mendez, D. C., Caseley, P. S., Peterson, S. C., ... Patel, N. V. (2012). Glycogen synthase kinase 3 (GSK3) inhibitor, SB-216763, promotes pluripotency in mouse embryonic stem cells. *PloS one*; 7(6), e39329.