



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



# Data Sheet

Research Use Only

## Compound Name

SB216763

## Catalog Number

SM90

## Activity

SB216763 is a potent, selective, and cell permeable glycogen synthase kinase-3 (GSK-3) inhibitor. It competes with ATP and potently inhibits the activity  $\alpha$  and  $\beta$  isozymes of GSK-3. GSK-3 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.

## Purity

>98%

## Formula

$C_{19}H_{12}Cl_2N_2O_2$

## Solubility

DMSO

## Alternative Names

SB-216763, SB 216763, 3-(2,4-Dichlorophenyl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione

## Effect

SB216763 protects both central and peripheral nervous system neurones in culture from death induced by reduced PI 3-kinase pathway activity. Treatment of primary neural progenitor cells with SB216763 resulted in an increase in the percentage of TuJ1-positive immature neurons, suggesting an inhibitory role of GSK3 in embryonic neurogenesis. It stimulates glycogen synthesis in Chang human liver cells. SB216763 treatment reduces cell viability in a dose-dependent manner, and leads to significant increase in apoptosis due to the specific down regulation of GSK-3 $\beta$ .

## CAS

280744-09-4

## Molecular Weight

371.22

## Stability

Stable at -20°C. Keep away from direct sunlight.

## References

1. Cross, DA., et al. 2001. J Neurochem. 77(1): 94-102. PMID: 11279265
2. Gross, ER., et al. 2008. Am J Physiol Heart Circ Physiol. 294(3): H1497-1500. PMID: 18223186
3. Ahn, J., et al. 2014. Stem Cells Dev. 23(10): 1121-1133. PMID: 24397546
4. Lee, CL., et al. 2014. Radiat Res. 181(5): 445-451. PMID: 24720754