Product Data Sheet

Product Name: AZD1080
CAS No.: 612487-72-6
Cat. No.: HY-13862
MWt: 334.37
Formula: C19H18N4O2
Purity: >98%
Solubility: 25°C: DMSO

Mechanisms:
Pathways: PI3K/Akt/mTOR; Target: GSK-3

Biological Activity:
Description:
IC50 Value: 31 nM [1]
AZD1080 is a potent and selective GSK3 inhibitor that demonstrates peripheral target engagement in Phase 1 clinical studies.

in vitro: AZD1080 inhibits tau phosphorylation in cells expressing human tau and in intact rat brain. Interestingly, subchronic but not acute administration with AZD1080 reverses MK-801-induced deficits, measured by long-term potentiation in hippocampal slices and in a cognitive test in mice, suggesting that reversal of synaptic plasticity deficits in dysfunctional systems requires longer term modifications of proteins downstream of GSK3β signaling [1].

in vivo: AZD1080 reverses MK-801-induced impairments in mouse model of cognition. AZD1080 treatment significantly prevents MK-801-induced deficits at both time-points (*p < 0.05; **p < 0.01). Data are presented as mean _ SEM (n = 9-12 subjects/group). [1]

References:

Caution: Not fully tested. For research purposes only

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