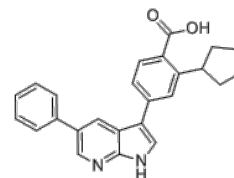


Product Name : GSK650394
Cat. No. : PC-49625
CAS No. : 890842-28-1
Molecular Formula : C₂₅H₂₂N₂O₂
Molecular Weight : 382.46
Target : SGK
Solubility : 10 mM in DMSO



Biological Activity

GSK650394 (GSK 650394) is a potent, competitive inhibitor of serum and glucocorticoid-regulated kinase 1 (**SGK1**) with IC₅₀ of 62 nM and 103 nM for enzymatic activity of SGK1 and SGK2 respectively, in vitro activity-based scintillation proximity assay (SPA).

GSK650394 inhibited SGK1-mediated epithelial transport with an IC₅₀ of 0.6 μM in Idosterone-stimulated short circuit current cellular assay (SCC).

GSK650394 displays 60-fold selective for SGK1 over the upstream AGC kinase PDK1 and , >30-fold selectivity over Akt and other related kinases.

GSK650394 also potently inhibits CAMKK2 enzyme with pIC₅₀ of 9.2.

GSK650394 repressed the androgen-mediated enhancement of Nedd4-2 phosphorylation in LNCaP cells, inhibited the androgen-stimulated growth of LNCaP cells with IC₅₀ of 1 μM and completely abrogated androgen-mediated growth at 10 μM.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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