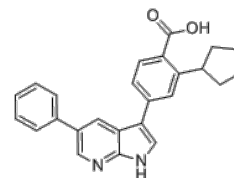


**Product Name** : GSK650394  
**Cat. No.** : PC-49625  
**CAS No.** : 890842-28-1  
**Molecular Formula** : C<sub>25</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 382.46  
**Target** : SGK  
**Solubility** : 10 mM in DMSO



## Biological Activity

GSK650394 (GSK 650394) is a potent, competitive inhibitor of serum and glucocorticoid-regulated kinase 1 (SGK1) with IC<sub>50</sub> 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 IC<sub>50</sub> 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 pIC<sub>50</sub> 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 IC<sub>50</sub> of 1 μM and completely abrogated androgen-mediated growth at 10 μM.

## References

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Borst O, et al. Blood. 2012 Jan 5;119(1):251-61.

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

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