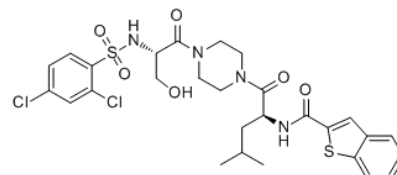


**Product Name** : GSK-1016790A  
**Cat. No.** : PC-45654  
**CAS No.** : 942206-85-1  
**Molecular Formula** : C<sub>28</sub>H<sub>32</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>6</sub>S<sub>2</sub>  
**Molecular Weight** : 655.613  
**Target** : TRP Channel  
**Solubility** : DMSO: ≥ 33 mg/mL



## Biological Activity

GSK-1016790A is a potent **TRPV4** channel agonist, induces Ca<sup>2+</sup> influx in HEK cells expressing human TRPV4 with EC<sub>50</sub> of 2.1 nM.

GSK-1016790A displays no effect on TRPM8 and TRPA1.

GSK-1016790A evokes a dose-dependent activation of TRPV4 whole-cell currents at >1 nM, 300-fold more potent than 4α-PDD.

GSK-1016790A induces urinary bladder contraction and hyperactivity in TRPV4<sup>+/+</sup> mice.

## References

Thorneloe KS, et al. *J Pharmacol Exp Ther.* 2008 Aug;326(2):432-42.

Rajasekhar P, et al. *J Biol Chem.* 2015 Nov 27;290(48):29051-62.

Hong Z, et al. *Mol Neurobiol.* 2016 Jan;53(1):759-768.

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

E-mail: tech@probechem.com