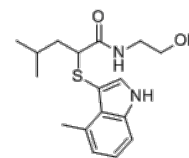


**Product Name** : S3969  
**Cat. No.** : PC-21839  
**CAS No.** : 1027997-01-8  
**Molecular Formula** : C<sub>17</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>S  
**Molecular Weight** : 320.45  
**Target** : Sodium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

S3969 is a small molecule activator of the human epithelial sodium channel (ENaC) with EC<sub>50</sub> of 1.2  $\mu$ M in ENaC-expressing oocytes.

S3969 can fully and reversibly activates human ENaC (hENaC) in an amiloride-sensitive and dose-dependent manner in heterologous cells.

S3969 activates hENaC following removal of amiloride, increases hENaC open probability.

S3969 activates  $\delta\beta\gamma$  hENaC but not  $\alpha\beta\gamma$  mENaC, opens ENaC channels not cleaved by furin proteolysis.

S3969 increases hENaC open probability through interactions requiring the extracellular domain of the  $\beta$  subunit.

## References

Lu M, et al. J Biol Chem. 2008 May 2;283(18):11981-94.

Huber R, et al. Cell Physiol Biochem. 2010;25(1):145-58.

Sure F, et al. J Biol Chem. 2024 Feb 22:105785.

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

E-mail: tech@probechem.com