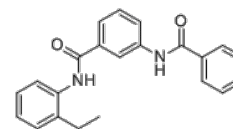


**Product Name** : TASK inhibitor F3  
**Cat. No.** : PC-49468  
**CAS No.** : 600125-11-9  
**Molecular Formula** : C<sub>22</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 344.414  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

TASK inhibitor F3 is a potent, selective blocker of TWIK-related acid-sensitive K<sup>+</sup> (**TASK**) channels with IC<sub>50</sub> of 148 nM (TASK-1).

TASK inhibitor F3 displays a reduced inhibition of TASK-3 channels and not a significant effect on different K<sup>+</sup> channels. TASK inhibitor F3 blocks cell proliferation and viability in the MCF-7 cancer cell line but not in TASK-1 knockdown MCF-7 cells.

Mutation of seven residues to A (I118A, L122A, F125A, Q126A, L232A, I235A, and L239A) markedly decreased the F3-induced inhibition of TASK-1 channels.

## References

Bárbara Arévalo, et al. J. Med. Chem. 2022.

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

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