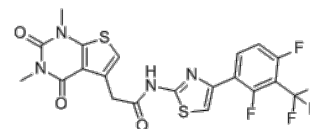


**Product Name** : GRC-17536  
**Cat. No.** : PC-49700  
**CAS No.** : 1246761-03-4  
**Molecular Formula** : C<sub>20</sub>H<sub>13</sub>F<sub>5</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 516.46  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

GRC-17536 (GRC 17536) is a potent and selective **TRPA1** antagonist, inhibits citric acid -induced Ca<sup>2+</sup> influx with IC<sub>50</sub> of 8.2 nM in cell-based assays.

GRC-17536 displays no significant activity against TRPV1, TRPV3, TRPV4, TRPM8 at 1 μM.

GRC 17536 (10 nM and 1 μM) inhibited LPS + AITC, Loxoribine + AITC and ssRNA40 + AITC induced 45Ca<sup>2+</sup> uptake by 51.3% & 98.4%, 56.6% & 98.6% and 63.0% & 96.1% respectively in hTRPA1/CHO cells.

GRC 17536 blocked citric acid mediated cough in Guinea pigs, showed 79 and 89% inhibition of cough at 60 and 100 mg/kg respectively compared to the vehicle treated animal group.

## References

Mukhopadhyay I, et al. *PLoS One*. 2014 May 12;9(5):e97005.

Khairatkar J. N. et al. TRPA1 Antagonist for the Treatment of Pain Associated to Diabetic Neuropathic Pain. WO2016042501 A1, 2016.

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

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