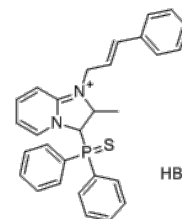


**Product Name** : ML154  
**Cat. No.** : PC-61554  
**CAS No.** : 1345964-89-7  
**Molecular Formula** : C<sub>29</sub>H<sub>26</sub>N<sub>2</sub>PS.Br  
**Molecular Weight** : 545.47  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

ML154 (NCGC00185684) is a potent, selective, brain penetrant **NPSR** (Neuropeptide S receptor, GPR154) antagonist with IC<sub>50</sub> of 22.1 nM and 36.5 nM in Ca<sup>2+</sup> assay and cAMP assay, respectively.

ML154 shows biased antagonist properties, and preferentially blocks ERK-phosphorylation over intracellular cAMP or calcium responses to NPS in vitro.

ML154 blocks alcohol-induced ERK-phosphorylation in the rat central amygdala, also decreases operant alcohol self-administration, and lowers motivation for alcohol reward in rats.

## References

Thorsell A, et al. *J Neurosci*. 2013 Jun 12;33(24):10132-42.

Patnaik S, et al. Probe Reports from the NIH Molecular Libraries Program [Internet].

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

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