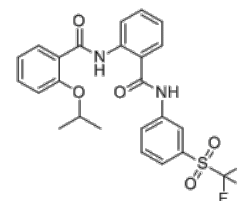


**Product Name** : ML-290  
**Cat. No.** : PC-70187  
**CAS No.** : 1482500-76-4  
**Molecular Formula** : C<sub>24</sub>H<sub>21</sub>F<sub>3</sub>N<sub>2</sub>O<sub>5</sub>S  
**Molecular Weight** : 506.5  
**Target** : Relaxin Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

ML-290 (ML290) is a potent and selective small-molecule agonist of **hRXFP1** with EC<sub>50</sub> of 94 nM.

ML-290 displays >15-fold selectivity over RXFP2 (IC<sub>50</sub>>15 μM).

ML-290 shows similar efficacy as the natural hormone in functional assays, and increases intracellular cAMP and induces VEGF expression (2.8-fold at 250 nM).

ML-290 has an excellent in vitro ADME profile and in vivo PK properties; a very useful tool for the study of RXFP1 activation in pre-clinical disease models of heart failure and other diseases.

## References

Diepenhorst NA, et al. *J Biol Chem*. 2014 Dec 12;289(50):34938-52.

Xiao J, et al. Probe Reports from the NIH Molecular Libraries Program [Internet].

Kocan M, et al. *Sci Rep*. 2017 Jun 7;7(1):2968.

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

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