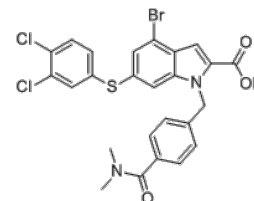


**Product Name** : Rheb inhibitor NR1  
**Cat. No.** : PC-62515  
**CAS No.** : 2216763-38-9  
**Molecular Formula** : C<sub>25</sub>H<sub>19</sub>BrCl<sub>2</sub>N<sub>2</sub>O<sub>3</sub>S  
**Molecular Weight** : 578.302  
**Target** : Small GTPase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Rheb inhibitor NR1 is a small molecule that binds **Rheb** in the switch II domain (IC<sub>50</sub>=2.1 μM, K<sub>d</sub>=1.5 μM) and selectively blocks mTORC1 signaling, potently inhibits mTORC1 driven phosphorylation of S6K1 but does not inhibit phosphorylation of AKT or ERK.

In contrast to rapamycin, NR1 does not cause inhibition of mTORC2 upon prolonged treatment, potently and selectively inhibits mTORC1 in mouse kidney and muscle in vivo.

## References

Mahoney SJ, et al. *Nat Commun.* 2018 Feb 7;9(1):548.

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

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