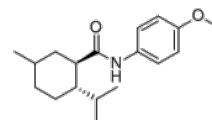


**Product Name** : WS-12  
**Cat. No.** : PC-60786  
**CAS No.** : 68489-09-8  
**Molecular Formula** : C<sub>18</sub>H<sub>27</sub>NO<sub>2</sub>  
**Molecular Weight** : 289.41  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

WS-12 (Acoltremon, AR-15512, AVX-012) is a potent, selective **TRPM8** agonist with EC<sub>50</sub> of 12 uM, a cooling agent. WS-12 displays higher potency and efficacy compared to menthol (EC<sub>50</sub>=193 uM), does activates thermo-sensitive TRP ion channel including TRPV1, TRPV2, TRPV3, TRPV4 and TRPA1 at 1 mM. WS-12 accelerates skin permeability barrier recovery, also reduces epidermal proliferation associated with barrier disruption.

### References

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Denda M, et al. *Exp Dermatol.* 2010 Sep;19(9):791-5.  
Gardiner JC, et al. *Eur J Pharmacol.* 2014 Oct 5;740:398-409.

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

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