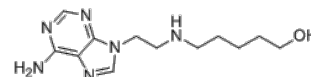


**Product Name** : NB001  
**Cat. No.** : PC-60666  
**CAS No.** : 686301-48-4  
**Molecular Formula** : C<sub>12</sub>H<sub>20</sub>N<sub>6</sub>O  
**Molecular Weight** : 264.333  
**Target** : Adenylate Cyclase  
**Solubility** : 10 mM in DMSO



### Biological Activity

NB001 (Peturadol) is a potent, relatively selective and orally active **adenylyl cyclase 1 (AC1)** inhibitor with IC<sub>50</sub> of 10 μM (cAMP production inhibition).

NB001 displays >10-fold selectivity over AC5/6/7/8.

NB001 shows analgesic effect in animal models of neuropathic pain, without no significant effect on behavioral anxiety.

### References

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Brand CS, et al. *J Pharmacol Exp Ther*. 2013 Nov;347(2):265-75.

Zhang MM, et al. *Mol Brain*. 2014 Jun 16;7:47.

Sethna F, et al. *Nat Commun*. 2017 Feb 20;8:14359.

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

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