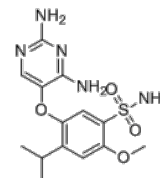


**Product Name** : Gefapixant  
**Cat. No.** : PC-61379  
**CAS No.** : 1015787-98-0  
**Molecular Formula** : C<sub>14</sub>H<sub>19</sub>N<sub>5</sub>O<sub>4</sub>S  
**Molecular Weight** : 353.397  
**Target** : P2X Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Gefapixant (AF-219, MK-7264) is an orally active, small molecule antagonist of **P2X<sub>3</sub>**-containing receptor with IC<sub>50</sub> of 30 nM (hP2X<sub>3</sub> homotrimer) and 100-250 nM (hP2X<sub>2/3</sub> heterotrimer).

Gefapixant (AF-219, MK-7264) displays no inhibitory impact on any non-P2X<sub>3</sub> subunit containing receptors (IC<sub>50</sub> >10,000 nM at recombinant homotrimeric hP2X<sub>1</sub>, hP2X<sub>2</sub>, hP2X<sub>4</sub>, rP2X<sub>5</sub> and hP2X<sub>7</sub> channels).

Gefapixant (AF-219, MK-7264) markedly and significantly reduced objective cough frequency in clinical trials.

## References

Abdulqawi R, et al. *Lancet*. 2015 Mar 28;385(9974):1198-205.

Ford AP, et al. *Front Cell Neurosci*. 2013 Dec 19;7:267.

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

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