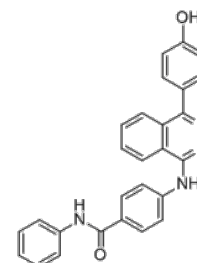


**Product Name** : ARN272  
**Cat. No.** : PC-38511  
**CAS No.** : 488793-85-7  
**Molecular Formula** : C<sub>27</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 432.47  
**Target** : FAAH  
**Solubility** : 10 mM in DMSO



## Biological Activity

ARN272 (ARN-272) is a specific, competitive FAAH-like anandamide transporter (**FLAT**) inhibitor, antagonizes [3H]-anandamide binding to purified FLAT (IC<sub>50</sub>=1.8 uM) and inhibits [3H]-anandamide accumulation in FLAT-expressing HEK293 cells with IC<sub>50</sub> of 3 uM.

ARN272 (1 mg/kg intraperitoneal, i.p.) in mice increased plasma levels of anandamide without changing the levels of 2-AG, OEA or PE.

ARN272 produces CB1-dependent antinociception, attenuates nociceptive and inflammatory pain in mice.

ARN272 tonically activates CB1 receptors and as such produces a type of indirect agonism to regulate toxin-induced nausea and vomiting.

FAAH-like anandamide transporter (FLAT) is a partly cytosolic variant of the intracellular anandamide-degrading enzyme, fatty acid amide hydrolase-1 (FAAH-1).

FLAT was proposed to function as an intracellular AEA carrier and mediate its delivery to FAAH for hydrolysis.

Pharmacological inhibition of FLAT potentiated AEA signaling and produced antinociceptive effects.

## References

Fu J, et al. *Nat Neurosci*. 2011 Nov 20;15(1):64-9.

O'Brien LD, et al. *Br J Pharmacol*. 2013 Nov;170(5):1130-6.

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

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