# SSR411298

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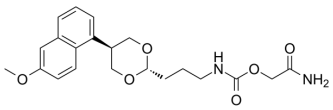
|---|---|
| **Cat. No.:** | HY-123863 |
| **CAS No.:** | 666860-59-9 |
| **Molecular Formula:** | $C_{21}H_{26}N_2O_6$ |
| **Molecular Weight:** | 402.44 |
| **Target:** | FAAH |
| **Pathway:** | Metabolic Enzyme/Protease; Neuronal Signaling |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (248.48 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.4848 mL | 12.4242 mL | 24.8484 mL |
| | 5 mM | 0.4970 mL | 2.4848 mL | 4.9697 mL |
| | 10 mM | 0.2485 mL | 1.2424 mL | 2.4848 mL |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

**Description**

SSR411298 is an orally active, selective and reversible fatty acid amide hydrolase (FAAH) inhibitor. SSR411298 has the potential for post-traumatic stress disorder research[1].

**In Vitro**

SSR411298 (0.1, 1, 10, 100, 1000, 10000 nM) inhibits mouse brain FAAH in a concentration-dependent manner[1].
SSR411298 produces maximal inhibition of FAAH between 0.3 and 30 mg/kg in the ex-vivo experiment[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**

SSR411298 (0.3, 1, 3 mg/kg; p.o.; twice a day during 2 days; 60 minutes before pretest, immediately after, and 60 minutes before the second session of testing) produces robust antidepressant-like activity in the rat forced-swimming test and in the mouse chronic mild stress model, restoring notably the development of inadequate coping responses to chronic stress in male Wistar rats weighing 235-290 g[1].
SSR411298 (0.3, 1, 3, 10 mg/kg; po; single dose; two hours prior to sacrifice) produces a significant global increase of tissular AEA, PEA and OEA levels in the hippocampus, but not of 2-AG levels[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Guy Griebel, et al. The selective reversible FAAH inhibitor, SSR411298, restores the development of maladaptive behaviors to acute and chronic stress in rodents. Sci Rep. 2018 Feb 5;8(1):2416.



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