

Product Data Sheet

URB694

Cat. No.: HY-W728451

CAS No.: 904672-77-1

Molecular Formula: $C_{19}H_{21}NO_3$ Molecular Weight: 311.37

Target: FAAH

Pathway: Metabolic Enzyme/Protease; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description

URB694 is a carbamate FAAH inhibitor that irreversibly carbamoylate the nucleophile catalytic serine in FAAH active site. URB694 exhibits antidepressant-like activity and cardioprotective effects. URB694 can be used to prepare ¹¹C-Carbonyl-URB694 for in vivo positron emission tomography (PET) imaging studies of the brain FAAH^{[1][2]}.

In Vivo

URB694 (0.3 mg/kg; i.p.) increases the time spent by HAB rats on the open arms compared to vehicle condition, without affecting overall locomotor activity $^{[1]}$.

 $\label{eq:control} \mbox{URB694 (0.3 mg/kg; i.p.) reduces isoproterenol hydrochloride (ISOP; HY-B0468)-induced arrhythmia occurrence in HAB rats, whereas it has no significant effects in NAB and LAB rats $[1]$.}$

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	5-month-old male Wistar rats (350-450 g) selectively bred for high (HAB) and low (LAB) anxiety-related behavior in the elevated plus-maze test or non-selected rats (NAB) $^{[1]}$
Dosage:	0.3 mg/kg
Administration:	Administered intraperitoneally to rats in a volume of 0.5 mL/kg
Result:	Significantly increased the time spent by HAB rats on the open arms. Had no effects on NABs' and LABs' behavioral performance in the elevated plus maze test.

Animal Model:	HAB, NAB and LAB rats ^[1]
Dosage:	0.3 mg/kg
Administration:	Received the i.p. injection 30 min before ISOP (0.02 mg/kg)
Result:	Significantly reduced ISOP-induced arrhythmia occurrence in HAB rats compared to vehicle pretreatment condition. Had no significant effects in NAB and LAB rats.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only. Tel: 609-228-6898 Fax: 609-228-6999 E-mail: techegolecchem Express.com Address: 1 Deer Park Dr., Suite Q, Monmouth Junction, NJ 08852, USA
Caution: Product has not been fully validated for medical applications. For research use only. Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address. 1 Dect 1 aix bi, suite Q, moninodal suitetoli, No 00052, 05A

Page 2 of 2 www.MedChemExpress.com