Proteins

Product Data Sheet

16-HETE

Cat. No.: HY-116444A CAS No.: 128914-46-5 Molecular Formula: $C_{20}H_{32}O_{3}$

Molecular Weight: 320.47

Target: Na+/K+ ATPase

Pathway: Membrane Transporter/Ion Channel

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

Analysis.

BIOLOGICAL ACTIVITY

Description 16-HETE is arachidonic acid metabolite through subterminal hydroxylation by cytochrome P-450. 16-HETE exhibits vasodilatory and PMN inhibitory effects and serves as biomarker for early stages of non-alcoholic fatty liver disease^{[1][2][3]}.

In Vitro 16-HETE (0.01-1 μM) specificially suppresses PMN aggregation and adhesion, with no significant effects on platelets function and blood pressure^[1].

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

In Vivo 16-HETE (1-20 µg, i.a.) is stereospecificially involved in vasodilation, regulation of renal perfusion and in mechanisms of tubular transport with S- enantiomer in New Zealand white rabbit^[2].

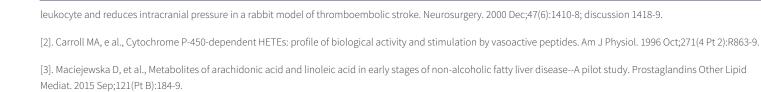
> 16-HETE (1 µg/kg/min) suppresses the increase of intracranial pressure (ICP) in a rabbit model of thromboembolic stroke^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

1-20 μg
injection into artery
16S inhibited 60% ATPase activity at the concentration of 2 $\mu\text{M},$ while 16R enantiomer remained inactive.

Animal Model:	New Zealand White rabbit ^[1]
Dosage:	1 μg/kg/min
Administration:	6 hours constant infusion from Hours 1 to 2 after autologous clot embolization
Result:	Reduced infarction area and less increased ICP.

REFERENCES

[1]. Bednar MM, et al., 16(R)-hydroxyeicosatetraenoic acid, a novel cytochrome P450 product of arachidonic acid, suppresses activation of human polymorphonuclear



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

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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