

Endocannabinoid System (ECS) Research Reagents

Endogenous cannabinoids, such as anandamide and 2-arachidonoyl glycerol (2-AG), are biologically active lipids that activate the cannabinoid receptors CB₁ and CB₂. Cannabinoid receptors, located throughout the body, are part of the endocannabinoid system (ECS) which is involved in a variety of physiological processes.¹⁾ Endocannabinoid signaling is terminated by enzymatic hydrolysis, a process that for anandamide is mediated by fatty acid amide hydrolase (FAAH), and for 2-AG is thought to involve monoacylglycerol lipase (MAGL). In the mouse brain, inhibition of these enzymes has been reported to raise the levels of each endocannabinoid.^{2,3)}

Endogenous Cannabinoids and Their Derivatives

Anandamide	25mg [A3448]
2-Arachidonoylglycerol (= 2-AG) (1% in Acetonitrile)	1g [A3490]
Arachidonyl-2-chloroethylamide (= ACEA)	25mg [A3445]
N-Arachidonoyl Dopamine (= NADA)	10mg [A3446]

Enzyme Inhibitors

FAAH Inhibitor	
URB-597	100mg [A3607]
MAGL Inhibitor	
JZL 184	25mg [J0038]

Related Products

Cannabinoid Receptor Agonists

β-Caryophyllene	25mL / 100mL / 500mL [C0796]
HU-210	10mg [H1811]
GW-405833	10mg [G0600]
WIN 55212-2 Mesylate	50mg [W0019]

Cannabinoid Receptor Antagonists

AM 251	50mg [A3151]
AM-630 (= Iodopradoline)	25mg [A3160]
Rimonabant	25mg / 100mg [R0205]

Notice: Some of the products listed may not be available for sale for regulatory reasons in some countries. Please contact us for more information.

For Laboratory Use, Research Purposes Only.

- References** 1) H.-C. Lu, K. Mackie, *Biol. Psychiatry* **2016**, *79*, 516215. <https://doi.org/10.1016/j.biopsych.2015.07.028>
 2) D. Piomelli, D. Putman, *et al.*, *CNS Drug Rev.* **2006**, *12*, 21. <https://doi.org/10.1111/j.1527-3458.2006.00021.x>
 3) J. Z. Long, B. F. Cravatt, *et al.*, *Nat. Chem. Biol.* **2009**, *5*, 37. <https://doi.org/10.1038/nchembio.129>

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