

Product Name: IDFP
Cat. No.: GC43891

Cas. No. 615250-02-7

SMILES CCCCCCCCCCCCP(=O)(F)OC(C)C

Formula	C15H32FO2P	M.Wt	294.4
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Solubility	DMF: 10 mg/ml,DMSO: 12 mg/ml,Ethanol: 10 mg/ml	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure 

The endocannabinoids, 2-arachidonoyl glycerol (2-AG) and arachidonoyl ethanolamide (AEA), are biologically active lipids that regulate diverse neurological and metabolic functions by activating the cannabinoid receptors, central cannabinoid (CB1) and peripheral cannabinoid (CB2). Monoacylglycerol lipase (MAGL) and fatty acid amide hydrolase (FAAH) hydrolyze 2-AG and AEA, respectively, thus terminating their biological function. IDFP is an organophosphorus compound that dually inhibits MAGL and FAAH with IC₅₀ values of 0.8 and 3 nM, respectively. At 10 mg/kg, IDFP elevates brain levels of 2-AG and AEA more than 10-fold, and decreases levels of arachidonic acid by a similar magnitude.

Caution: Product has not been fully validated for medical applications. For research use only.

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