

Product Data Sheet

Product Name: JW 642
Cat. No.: GC17304

Chemical Properties

Cas. No. 1416133-89-5

Chemical Name 1,1,1,3,3,3-hexafluoropropan-2-yl 4-(3-phenoxybenzyl)piperazine-1-carboxylate

SMILES FC(F)(F)C(OC(N1CCN(CC2=CC(OC3=CC=CC=C3)=CC=C2)CC1)=O)C(F)(F)F

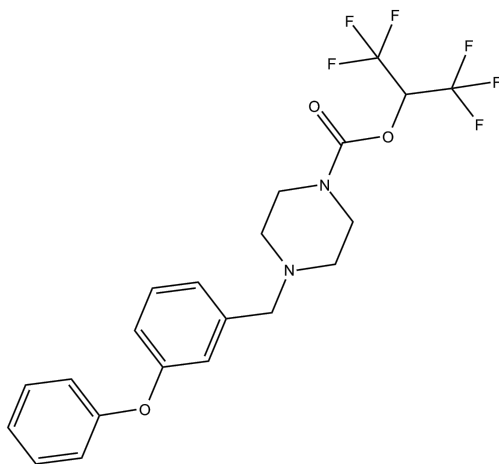
Formula $C_{21}H_{20}F_6N_2O_3$ M.Wt 462.39

Solubility DMF: 11 mg/ml, DMSO: 5 mg/ml, Ethanol: 13 mg/ml, Ethanol: PBS (pH 7.2)(1:2): 0.3 mg/ml
Storage Store at -20°C

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.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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JW 642 is a potent inhibitor of monoacylglycerol lipase (MAGL) that displays IC₅₀ values of 7.6, 14, and 3.7 nM for inhibition of MAGL in mouse, rat, and human brain membranes, respectively. IC₅₀ value: 7.6/14/3.7 nM(mouse/rat/human MAGL) [1]Target: MAGL inhibitor JW 642 is selective for MAGL, requiring much higher concentrations to effectively inhibit fatty acid amide hydrolase activity (IC₅₀s = 31, 14, and 20.6 μM for mouse, rat, and human brain membranes, respectively).

References:

[1]. Chang JW, et al. Highly selective inhibitors of monoacylglycerol lipase bearing a reactive group that is bioisosteric with endocannabinoid substrates. Chem Biol. 2012 May 25;19(5):579-88.

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