



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Product Information

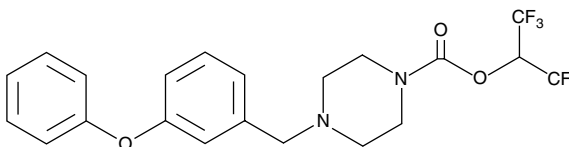


**JW 642**

Item No. 11789

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**CAS Registry No.:** 1416133-89-5  
**Formal Name:** 1,1,1,3,3,3-hexafluoropropan-2-yl  
4-(3-phenoxybenzyl)piperazine-1-  
carboxylate  
**MF:** C<sub>21</sub>H<sub>20</sub>F<sub>6</sub>N<sub>2</sub>O<sub>3</sub>  
**FW:** 462.4  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate



## Laboratory Procedures

For long term storage, we suggest that JW 642 be stored as supplied at -20°C. It should be stable for at least one year.

JW 642 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of JW 642 in these solvents is approximately 13, 5, and 11 mg/ml, respectively.

JW 642 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of JW 642 should be diluted with the aqueous buffer of choice. JW 642 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Endocannabinoids such as 2-arachidonoyl glycerol (2-AG) and arachidonoyl ethanolamide are biologically active lipids that are involved in a number of synaptic processes including activation of cannabinoid receptors. Monoacylglycerol lipase (MAGL) is a serine hydrolase responsible for the hydrolysis of 2-AG to arachidonic acid and glycerol, thus terminating its biological function. JW 642 is a potent inhibitor of MAGL that displays IC<sub>50</sub> values of 7.6, 14, and 3.7 nM for inhibition of MAGL in mouse, rat, and human brain membranes, respectively.<sup>1</sup> JW 642 is selective for MAGL, requiring much higher concentrations to effectively inhibit fatty acid amide hydrolase activity (IC<sub>50</sub>s = 31, 14, and 20.6 μM for mouse, rat, and human brain membranes, respectively).<sup>1</sup>

## Reference

1. Stein, C.A. Suramin: A novel antineoplastic agent with multiple potential mechanisms of action. *Cancer Res.* **53**, 2239-2248 (1993).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/11789](http://www.caymanchem.com/catalog/11789)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

### SAFETY DATA

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