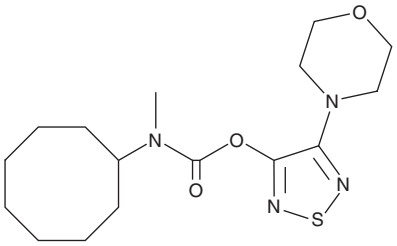
PRODUCT INFORMATION

JZP 430

Item No. 35383

CAS Registry No.: 1672691-74-5
Formal Name: N-cyclooctyl-N-methyl-carbamic acid, 4-(4-morpholinyl)-1,2,5-thiadiazol-3-yl ester
MF: $C_{16}H_{26}N_4O_3S$
FW: 354.5
Purity: ≥98%
UV/Vis.: λ_{max}: 206, 210, 302 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

JZP 430 is supplied as a solid. A stock solution may be made by dissolving the JZP 430 in the solvent of choice, which should be purged with an inert gas. JZP 430 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of JZP 430 in DMF is approximately 30 mg/ml and approximately 10 mg/ml in ethanol and DMSO.

Description

JZP 430 is an inhibitor of α/β-hydrolase domain-containing protein 6 (ABHD6; IC_{50} = 0.044 for the human enzyme).[1] It is selective for ABHD6 over fatty acid amid hydrolase (FAAH) and monoacylglycerol lipase (MAGL) when used at a concentration of 2.5 µM, ABHD12 at 1 µM, as well as lysosomal acid lipase (LAL) and cannabinoid 1 (CB_1) and CB_2 receptors at 10 µM.

Reference

1. Patel, J.Z., Nevalainen, T.J., Savinainen, J.R., *et al*. Optimization of 1,2,5-thiadiazole carbamates as potent and selective ABHD6 inhibitors. *ChemMedChem* **10(2)**, 253-265 (2015).

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