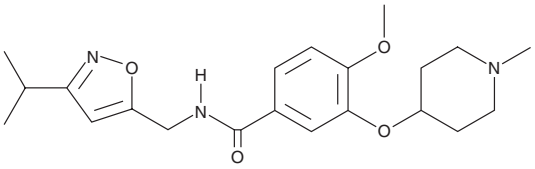
PRODUCT INFORMATION

ML-352

Item No. 21878

CAS Registry No.:	1649450-12-3
Formal Name:	4-methoxy-N-[[3-(1-methylethyl)-5-isoxazolyl]methyl]-3-[(1-methyl-4-piperidinyl)oxy]-benzamide
MF:	$C_{21}H_{29}N_3O_4$
FW:	387.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 212, 257 nm
Supplied as:	A crystalline 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

ML-352 is supplied as a crystalline solid. A stock solution may be made by dissolving the ML-352 in the solvent of choice, which should be purged with an inert gas. ML-352 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of ML-352 in ethanol is approximately 5 mg/ml and approximately 20 mg/ml in DMSO and DMF.

ML-352 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ML-352 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. ML-352 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

ML-352 is a noncompetitive inhibitor of the presynaptic choline transporter (CHT) with K_i values of 92 and 166 nM for HEK293 cells expressing human CHT and mouse forebrain synaptosomes, respectively.[1] It is selective for CHT over dopamine, norepinephrine, and serotonin transporters in HEK293 cells expressing human transporters when used at a concentration of 5 µM as well as a panel of 68 G protein-coupled receptors, ion channels, and transporters when used at a concentration of 10 µM. ML-352 (5 µM) increases cell surface expression of CHT without affecting total protein levels.

Reference

1. Ennis, E.A., Wright, J., Retzlaff, C.L., *et al.* Identification and characterization of ML352: A novel, noncompetitive inhibitor of the presynaptic choline transporter. *ACS Chem. Neurosci.* **6(3)**, 417-427 (2015).

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