

Product Data Sheet

Product Name: ML-252 (hydrochloride)

Cat. No.: GC44219

Chemical Properties

Cas. No. 2309887-61-2

SMILES CC[C@H](C(=O)Nc1ccccc1N2CCCC2)C3=CC=CC=C3.Cl

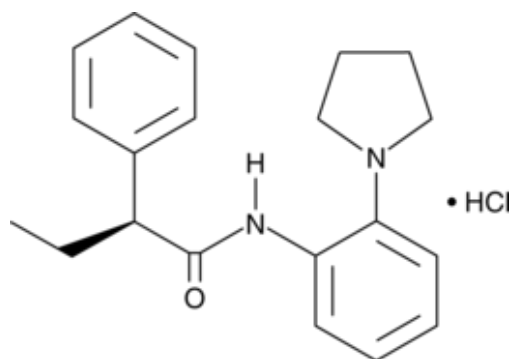
Formula C20H24N2O.HCl M.Wt 344.9

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 20 mg/ml, PBS (pH 7.2): 2 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

ML-252 is a potent and selective inhibitor of the voltage-gated potassium channel subtype Kv7.2 (IC₅₀ = 69 nM in a patch clamp assay). It is the (S)-enantiomer and is more potent than the (R)-enantiomer and the racemic mixture (IC₅₀s = 944 and 160 nM, respectively). It is selective for Kv7.2

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

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over other Kv channel subtypes, >68 G protein-coupled receptors, transporters, L- and N-type calcium channels, and KATP and hERG potassium channels though it does inhibit the melatonin MT1 receptor 61% when used at a concentration of 10 μ M.

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