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**Product Data Sheet**

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Product Name: ML375  
Cat. No.: GC69476

**Chemical Properties**

Cas. No. 1488362-55-5

Formula  $C_{23}H_{15}ClF_2N_2O_2$

M.Wt 424.83

Solubility DMSO : 40 mg/mL (94.16 mM; Need ultrasonic and warming)

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**

ML375 (VU0483253) is a potent, highly selective, brain-penetrant and orally active **M5 Produced dose-related reductions in cocaine self-administration.**

**[1]. Patrick R Gentry, et al. Discovery of the first M5-selective and CNS penetrant negative allosteric modulator (NAM) of a muscarinic acetylcholine receptor: (S)-9b-(4-chlorophenyl)-1-(3,4-difluorobenzoyl)-2,3-dihydro-1H-imidazo[2,1-a]isoindol-5(9bH)-one (ML**

**[2]. Barak W Gunter, et al. Selective inhibition of M 5 muscarinic acetylcholine receptors attenuates cocaine self-administration in rats. Addict Biol. 2018 Sep;23(5):1106-1116.**

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

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