

Product Data Sheet

Product Name: ML381
Cat. No.: GC70225

Chemical Properties

Cas. No. 1623481-80-0

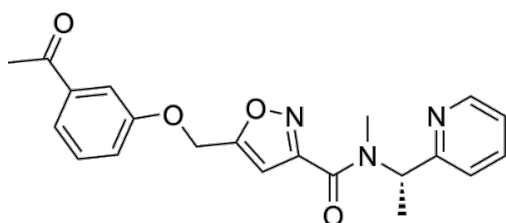
Formula $C_{21}H_{21}N_3O_4$ M.Wt 379.41

Solubility DMSO : 100 mg/mL (263.57 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

ML381 (VU0488130) is a highly selective, central nervous system penetrant mAChR M5 orthogonal antagonist (IC₅₀ = 450 nM; K_i = 340 nM). ML381 is unstable in rat plasma and can be mainly used as a molecular probe for in vitro and electrophysiological studies.

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

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ML381 (0.2 mg/kg; i.v.; single) possesses an overall acceptable DMPK profile for pharmacodynamic studies in rat, with the exception of poor metabolic stability and a potential for amide hydrolysis in plasma; as such, ML381 is best suited to use as an in vitro/electrophysiological probe^[1].

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