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**Product Data Sheet**

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Product Name: Idalopirdine

Cat. No.: GC36291

**Chemical Properties**

Cas. No. 467459-31-0

SMILES FC1=CC(NC=C2CCNCC3=CC(OCC(F)(C(F)F)F)=CC=C3)=C2C=C1Formula C<sub>20</sub>H<sub>19</sub>F<sub>5</sub>N<sub>2</sub>O

M.Wt 398.37

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

LU AE58054 is an antagonist of the serotonin (5-HT) receptor subtype 5-HT<sub>6</sub> (K<sub>i</sub> = 0.83 nM).<sup>1</sup> It is selective for 5-HT<sub>6</sub> over other 5-HT receptor subtypes (K<sub>i</sub>s = 250 to >10,000 nM) and 70 other targets but does not bind to α<sub>1A</sub>- and α<sub>1B</sub>-adrenergic receptors (α<sub>1B</sub>-ARs; K<sub>i</sub>s = 21 and 22 nM, respectively). LU AE58054 (5-20 mg/kg) reverses phencyclidine-induced deficits in novel object recognition memory in rats. When administered in combination with the cholinesterase inhibitor rivastigmine, LU AE58054 has an additive effect on the decreased number of slips and falls made by rats with bilateral striatal-dopaminergic and cortical-cholinergic system lesions, a model of Parkinson's disease motor disruption, in the Michigan complex motor control task.<sup>2</sup>

1. Arnt, J., Bang-Andersen, B., Grayson, B., et al. LU AE58054, a 5-HT<sub>6</sub> antagonist, reverses cognitive impairment induced by subchronic phencyclidine in a novel object recognition test in rats. *Int. J. Neuropsychopharmacol.* 13(8):1021-1033 (2010)

2. Cherian, A.K., Kucinski, A., Wu, R., et al. Co-treatment with rivastigmine and idalopirdine reduces the propensity for falls in a rat model of falls in Parkinson's disease. *Psychopharmacology (Berl)* 236(6):1701-1715 (2019)

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

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