

Product Data Sheet

Product Name: Sumanitrole maleate

Cat. No.: GC37702

Chemical Properties

Cas. No. 179386-44-8

SMILES O=C1NC2=C3N1C[C@H](NC)CC3=CC=C2.O=C(/C=C\C(O)=O)O

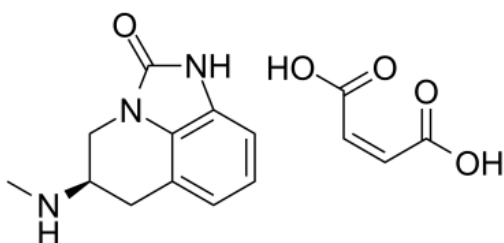
Formula $C_{15}H_{17}N_3O_5$ M.Wt 319.31

Solubility DMSO: 50 mg/mL (156.59 mM); Storage Store at -20°C
Water: 10 mg/mL (31.32 mM)

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

Sumanitrole maleate (PNU 95666E; U95666E) is a highly selective D2 receptor full agonist with an ED50 of about 46 nM. IC50 value: 46 nM (EC50). Target: D2 receptor. Sumanitrole was developed for the treatment of Parkinson's disease and restless leg syndrome. While it has never been approved for medical use, Sumanitrole is a highly valuable tool compound for basic research to identify neurobiological mechanisms that are based on a dopamine D2-linked (vs. D1, D3, D4, and D5-linked) mechanism of action.

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

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[1]. Arthur G. Romero, et al. Synthesis of the Selective D2 Receptor Agonist PNU-95666E from D-Phenylalanine Using a Sequential Oxidative Cyclization Strategy. J. Org. Chem. 1997, 62, 6582-6587

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