

RTI 336

Chemical Properties

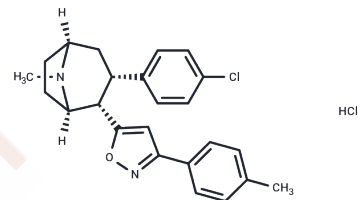
CAS No. : 204069-50-1

Formula: C₂₄H₂₆Cl₂N₂O

Molecular Weight: 429.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	RTI 336 is used as a chronic brain dopamine transporter (DAT) inhibitor.
Targets(IC50)	Others,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3289 mL	11.6447 mL	23.2894 mL
5 mM	0.4658 mL	2.3289 mL	4.6579 mL
10 mM	0.2329 mL	1.1645 mL	2.3289 mL
50 mM	0.0466 mL	0.2329 mL	0.4658 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Andersen ML, Sawyer EK, Carroll FI, Howell LL. Influence of chronic dopamine transporter inhibition by RTI-336 on motor behavior, sleep, and hormone levels in rhesus monkeys. *Exp Clin Psychopharmacol*. 2012 Apr;20(2):77-83. doi: 10.1037/a0026034. Epub 2011 Oct 24. PubMed PMID: 22023668; PubMed Central PMCID: PMC3302935.
- Czoty PW, Martelle JL, Carroll FI, Nader MA. Lower reinforcing strength of the phenyltropane cocaine analogs RTI-336 and RTI-177 compared to cocaine in nonhuman primates. *Pharmacol Biochem Behav*. 2010 Sep;96(3):274-8. doi: 10.1016/j.pbb.2010.05.017. Epub 2010 May 24. PubMed PMID: 20580733; PubMed Central PMCID: PMC2907452.
- Hiranita T, Wilkinson DS, Hong WC, Zou MF, Kopajtic TA, Soto PL, Lupica CR, Newman AH, Katz JL. 2-isoxazol-3-phenyltropane derivatives of cocaine: molecular and atypical system effects at the dopamine transporter. *J Pharmacol Exp Ther*. 2014 May;349(2):297-309. doi: 10.1124/jpet.113.212738. Epub 2014 Feb 11. Erratum in: *J Pharmacol Exp Ther*. 2014 Jun 1;349(3):534. PubMed PMID: 24518035; PubMed Central PMCID: PMC3989806.
- Haile CN, Zhang XY, Carroll FI, Kosten TA. Cocaine self-administration and locomotor activity are altered in Lewis and F344 inbred rats by RTI 336, a 3-phenyltropane analog that binds to the dopamine transporter. *Brain Res*. 2005 Sep 7;1055(1-2):186-95. PubMed PMID: 16095575.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481