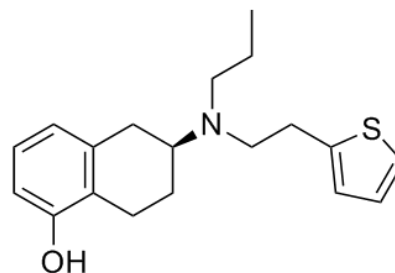


**Product Name** : Rotigotine  
**Cat. No.** : PC-45959  
**CAS No.** : 99755-59-6  
**Molecular Formula** : C<sub>19</sub>H<sub>25</sub>NOS  
**Molecular Weight** : 315.4729  
**Target** : Dopamine Receptor  
**Solubility** : 10 mM in DMSO



### Biological Activity

A non-selective agonist of the dopamine D3 receptor (K<sub>i</sub>=0.71 nM); has 10-fold selectivity for the D3 receptor over the D2, D4, and D5 receptors and 100-fold selectivity for the D3 receptor over the D1 receptor; behaves as a full agonist of D1, D2, and D3 with similar potencies (EC<sub>50</sub>) in functional assay; also demonstrates significant affinity at α-adrenergic (α<sub>2</sub>B, K<sub>i</sub>=27 nM) and serotonin receptors (5-HT<sub>1A</sub> K<sub>i</sub>=30 nM); significantly attenuates MPTP-induced acute cell degeneration in mouse model.

Parkinson's Disease

Approved

### References

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Scheller D, et al. Naunyn Schmiedebergs Arch Pharmacol. 2009 Jan;379(1):73-86.

Scheller D, et al. Neurosci Lett. 2008 Feb 13;432(1):30-4.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com