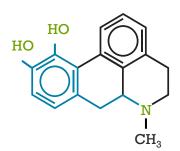


FDA, U.S. Food and Drug Administration; NDA, new drug application; PD, Parkinson's disease; SC, subcutaneous.

## Overview of Apomorphine

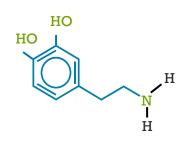
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1. Hagell P, Odin P. Apomorphine in Parkinson's disease. 3rd ed. UNI-MED; 2014. 2. APOKYN® (apomorphine hydrochloride injection). Prescribing information. US WorldMeds, LLC; May 2019. 3. KYNMOBI<sup>TM</sup> (apomorphine hydrochloride) sublingual film. Prescribing information. Sunovion Pharmaceuticals Inc.; May 2020. 4. Boyle A, Ondo W. CNS Drugs. 2015;29:83-89. 5. Ribaric S. Molecules. 2012;17:5289-5309. 6. Pietz K, et al. J Neurol Neurosurg Psychiatry. 1998;65;709-716. 7. KYNMOBI® [package insert]. Marlborough, MA: Sunovion Pharmaceuticals Inc. 8. Hagell P. Odin P. Apomorphine in Parkinson's disease, 3rd ed. Bremen, Germany: UNIMED: 2014. 9. Hisahara S. Shimohama S. Int J Med Chem. 2011;2011:403039.



**Apomorphine** 

(10,11-dihydroxyaporphine)



Dopamine

(4-(2-aminoethyl) benzene-1,2-diol)

## Highly lipophilic4

- Able to cross the bloodbrain barrier, where it preferentially accumulates4
- Brain concentrations can be up to 8X higher than those in plasma<sup>4,5</sup>

## Acidic<sup>6</sup>

pH of 3-4

## **Mechanism of Action**

The precise mechanism of action of apomorphine as a treatment for "OFF" episodes associated with Parkinson's disease is unknown, although it is believed to be due to stimulation of post-synaptic dopamine D2-type receptors within the caudate-putamen in the brain.3

