

## (-)-Apomorphine hydrochloride hydrate

## Chemical Properties

CAS No. : 58117-94-5

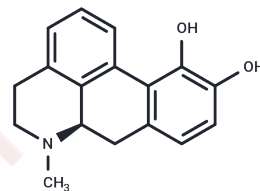
Formula: C<sub>17</sub>H<sub>18</sub>ClNO<sub>2</sub> · xH<sub>2</sub>O

Molecular Weight:

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



HCl

## Biological Description

Description	(-)-Apomorphine hydrochloride hydrate is a broad-spectrum dopamine agonist and ferroptosis inhibitor with affinity for all subtypes of dopamine D1 receptors of the D5 receptor. (-)-Apomorphine hydrochloride hydrate can be used to study mitochondrial diseases.
Targets(IC50)	Ferroptosis,Dopamine Receptor
In vitro	(-)-Apomorphine hydrochloride hydrate prevented ferroptosis in fibroblasts from various types of mitochondrial diseases as well as in normal controls. (-)-Apomorphine hydrochloride hydrate induced significant downregulation of PTSG2 and suppressed lipid peroxide to the same extent as other inhibitors of ferroptosis also indicate that (-)-Apomorphine hydrochloride hydrate suppresses ferroptosis. [1]

## Reference

Miyauchi A, et al. Apomorphine is a potent inhibitor of ferroptosis independent of dopaminergic receptors. Sci Rep. 2024 Feb 27;14(1):4820.

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