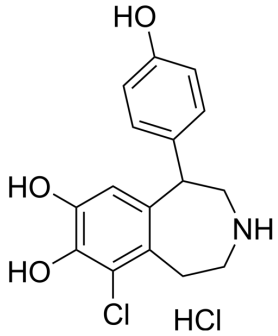
Fenoldopam hydrochloride

Cat. No.:	HY-110021
CAS No.:	181217-39-0
Molecular Formula:	$C_{16}H_{17}Cl_2NO_3$
Molecular Weight:	342.22
Target:	Dopamine Receptor; Histone Demethylase; Apoptosis
Pathway:	GPCR/G Protein; Neuronal Signaling; Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fenoldopam (SKF 82526) hydrochloride is a D_1 receptor agonist and a novel lysine-specific demethylase 1 (LSD1) inhibitor (IC_{50}=0.8974 μM). Fenoldopam hydrochloride shows anti-hypertensive effects, anti-cancer cell proliferation activity and can induce cells apoptosis[1][2][3].
IC_{50} & Target	IC50: 0.8974 μM (LSD1)[2]

CUSTOMER VALIDATION

- Cell. 2021 Feb 18;184(4):943-956.e18.
- Biomed Pharmacother. 2021, 111500.
- Biochem Biophys Res Commun. 18 December 2021.
- SLAS Discov. 2020 Sep;25(8):895-905.

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REFERENCES

[1]. A Grenader, et al. Fenoldopam is a partial agonist at dopamine-1 (DA1) receptors in LLC-PK1 cells. J Pharmacol Exp Ther. 1991 Jul 1;258(1):193-8.

[2]. Yan Zheng, et al. Identification of fenoldopam as a novel LSD1 inhibitor to abrogate the proliferation of renal cell carcinoma using drug repurposing strategy. Bioorg Chem. 2021 Mar;108:104561.

[3]. Yuta Fujii, et al. Detection of fenoldopam-induced arteritis in rats using ex vivo / in vivo MRI. Toxicology Reports, Volume 9, 2022, Pages 1595-1602.

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