LKT Laboratories, Inc.

Fenoldopam Mesylate

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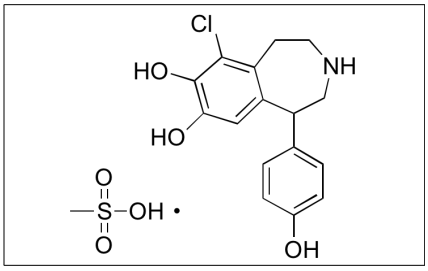
Product Information

Product ID F1654
CAS No. 67227-57-0
Chemical Name 6-Chloro-2,3,4,5-tetrahydro-1-(4-hydroxyphenyl)-1H- 3-benzazepine -7,8-diol methanesulfonate

Synonym Fenoldopam methanesulfonate, Corlopam



Formula $C_{16}H_{16}ClNO_3S \cdot CH_3SO_3H$
Formula Wt. 401.87
Melting Point 274°C (dec)
Purity ≥98%
Solubility Soluble in water. DMSO 15 mg/mL.

Bulk quanitites available upon request

Product ID	Size
F1654	25 mg
F1654	100 mg
F1654	500 mg

Store Temp Ambient
Ship Temp Ambient

Description Fenoldopam is a benzazepine derivative that acts as a partial agonist at D1 receptors; it may also inhibit α1-adrenergic receptors. Fenoldopam exhibits vasodilatory, antihypertensive, and natriuretic activities. In vivo, fenoldopam decreases blood pressure, afterload, and blood flow; it also inhibits NaCl reabsorption in the thick ascending limb, promoting Na+ excretion.

References

Grider JS, Ott CE, Jackson BA. Dopamine D1 receptor-dependent inhibition of NaCl transport in the rat thick ascending limb: mechanism of action. Eur J Pharmacol. 2003 Jul 25;473(2-3):185-90. PMID: 12892837.

Schafer JA, Li L, Sun D. The collecting duct, dopamine and vasopressin-dependent hypertension. Acta Physiol Scand. 2000 Jan;168(1):239-44. PMID: 10691807.

Martin SW, Broadley KJ. Renal vasodilatation by dopexamine and fenoldopam due to alpha 1-adrenoceptor blockade. Br J Pharmacol. 1995 May;115(2):349-55. PMID: 7670737.

Grenader A, Healy DP. 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. PMID: 1677038.

Nichols AJ, Ruffolo RR Jr, Brooks DP. The pharmacology of fenoldopam. Am J Hypertens. 1990 Jun;3(6 Pt 2):116S-119S. PMID: 1974439.