
Product Data Sheet

Product Name: Cinepazide

Cat. No.: GC15247

Chemical Properties

Cas. No. 23887-46-9

Chemical Name 1-[4-(2-oxo-2-pyrrolidin-1-ylethyl)piperazin-1-yl]-3-(3,4,5-trimethoxyphenyl)prop-2-en-1-one

SMILES COC1=CC(=CC(=C1OC)OC)C=CC(=O)N2CCN(CC2)CC(=O)N3CCCC3

Formula	C ₂₂ H ₃₁ N ₃ O ₅	M.Wt	417.5
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Cinepazide is a vasodilator. Target: Others Cinepazide is a vasodilator. Cinepazide (30 mg/kg, i.v.) potentiated the vertebral vasodilator response of dogs to intravertebral adenosine and cyclic AMP, Intravertebral cinepazide (1-10 mg) increased vertebral blood flow in a dose-related manner and the effect was partially inhibited by intravenous pretreatment with aminophylline but not by pretreatment with autonomic antagonists. Cinepazide resembled cinnarizine and papaverine in that the drug antagonized rabbit aortic contraction induced by KCl, norepinephrine or CaCl₂ [1]. Cinepazide in concentrations ranging from 10⁻⁶ to 10⁻⁵M augmented the relaxing responses to ATP, adenosine and cAMP. However, this agent did not affect the relaxations induced by isoproterenol and papaverine and the contractions induced by 5-HT, prostaglandin F_{2α} and ATP. cinepazide selectively potentiates the relaxing response mediated through purinergic P₁ receptors [2].

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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- [1]. Akashi, A., et al., [Cardiovascular pharmacology of cinepazide, a new cerebral vasodilator (author's transl)]. Nihon Yakurigaku Zasshi, 1979. 75(5): p. 507-16.
- [2]. Muramatsu, I., et al., Effects of cinepazide on the purinergic responses in the dog cerebral artery. Pharmacology, 1984. 28(1): p. 27-33.

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