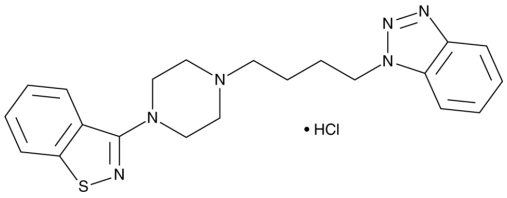
Product Data Sheet

Product Name: MT-1207 (hydrochloride)
Cat. No.: GC92012

Chemical Properties

Cas. No.			
Chemical Name	1-[4-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]butyl]-1H-benzotriazole, monohydrochloride		
SMILES	N1(N=NC2=C1C=CC=C2)CCCCN3CCN(CC3)C4=NSC5=C4C=CC=C5.Cl		
Formula	$C_{21}H_{24}N_6S$? HCl	M.Wt	429
Solubility	DMSO: Slightly soluble: 0.1-1 mg/ml	Storage	-20°C
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

MT-1207 is an antagonist of α_{1A}-, α_{1B}-, and α_{1D}-adrenergic receptors and the serotonin (5-HT) receptor subtype 5-HT_{2A} (IC_{50}s = <0.1, 0.15, 1.4, and 0.27 nM, respectively). [1] It is selective for these receptors over a panel of 87 receptors, ion channels, and enzymes at 1 ?M but does inhibit α2A- and α2B-adrenergic and 5-HT_{1A}, 5-HT_{1B}, 5-HT_{2B}, and 5-HT_{2C} receptors (IC_{50}s = 18.1, 4.89, 4.68, 41, 11.5, and 26 nM, respectively), among others. MT-1207 induces relaxation of isolated rat aortic rings precontracted with epinephrine, potassium chloride, norepinephrine, or 5-HT in a concentration-dependent manner. It decreases systolic and diastolic blood pressure and heart rate in spontaneously hypertensive rats and two kidney-one clip (2K-1C) renal hypertensive dogs when administered at doses of 10 and 4 mg/kg, respectively.

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

[1]. Xu, T.Y., Wang, P., Tian, J.S., et al.Pharmacological characterization of MT-1207, a novel multitarget antihypertensive agentActa. Pharmacol. Sin.42(6)885-897(2021).

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