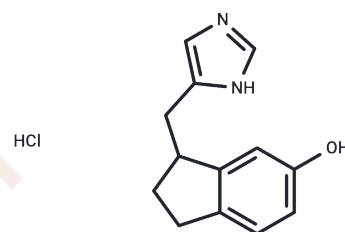


Fadolmidine HCl

Chemical Properties

CAS No. :	189353-32-0
Formula:	C ₁₃ H ₁₅ ClN ₂ O
Molecular Weight:	250.72
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fadolmidine, also known as MPV-2426, is a novel and potent alpha2 -adrenoceptor (alpha2) -AR) agonist developed for spinal analgesia. Fadolmidine displayed high affinity and full agonist efficacy at all three human alpha2-adrenoceptor subtypes (A, B and C) in transfected CHO cells with EC50 values (nM) of 0.4, 4.9 and 0.5, respectively. Fadolmidine inhibited also electrically evoked contractions in rat vas deferens demonstrating the activation of rodent presynaptic alpha2D-adrenoceptors with an EC50 value of 6.4 nM. Moreover, fadolmidine was a full agonist at human alpha1A-adrenoreceptor (EC50 value 22 nM) and alpha1B-adrenoreceptor (EC50 value 3.4 nM) in human LNCaP cells and transfected HEK cells, respectively. Agonism at the alpha1-adrenoceptor was also observed in rat vas deferens preparations although at lower potency (EC50 value 5.6 microM). Fadolmidine demonstrated potent alpha2-adrenoceptor agonist activity also in vivo by inhibiting electrically induced tachycardia i.....
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9885 mL	19.9426 mL	39.8851 mL
5 mM	0.7977 mL	3.9885 mL	7.977 mL
10 mM	0.3989 mL	1.9943 mL	3.9885 mL
50 mM	0.0798 mL	0.3989 mL	0.7977 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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