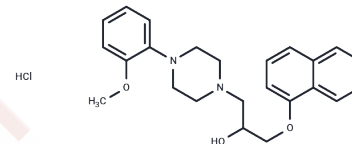


Naftopidil hydrochloride

Chemical Properties

CAS No. :	1164469-60-6
Formula:	C ₂₄ H ₂₉ ClN ₂ O ₃
Molecular Weight:	428.95
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	Naftopidil hydrochloride (BM-15275 hydrochloride) is a selective alpha1-adrenoceptor antagonist with Ki of 3.7 nM, 20 nM and 1.2 nM for the cloned human α1a-adrenoceptor, α1b-adrenoceptor and α1d-adrenoceptor, respectively. Naftopidil hydrochloride has antiproliferative effects.
Targets(IC50)	Adrenergic Receptor
In vitro	Naftopidil hydrochloride reduced the extent of lung fibrosis and SP-D production in bleomycin-induced lung fibrosis in mice[1].
In vivo	Naftopidil hydrochloride strongly suppressed cell proliferation of stromal cells, resulting in decreased tumorigenic soluble factor, suggesting that naftopidil might be effective in preventing stromal support of tumor cells[2].

Solubility Information

Solubility	DMSO: 60 mg/mL (139.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3313 mL	11.6564 mL	23.3127 mL
5 mM	0.4663 mL	2.3313 mL	4.6625 mL
10 mM	0.2331 mL	1.1656 mL	2.3313 mL
50 mM	0.0466 mL	0.2331 mL	0.4663 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.

Reference

Urushiyama H , Y Terasaki, Nagasaka S , et al. Naftopidil reduced the proliferation of lung fibroblasts and bleomycin-induced lung fibrosis in mice[J]. Journal of Cellular and Molecular Medicine, 2019.

Y, Hori, K, et al. Naftopidil, a Selective 1-Adrenoceptor Antagonist, Suppresses Human Prostate Tumor Growth by Altering Interactions between Tumor Cells and Stroma[J]. Cancer Prevention Research, 2011, 4(1).

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