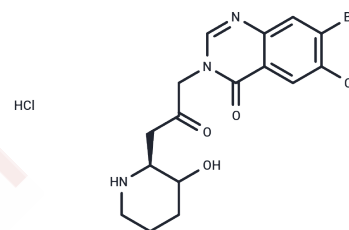


Halofuginone hydrochloride

Chemical Properties

CAS No. :	1217623-74-9
Formula:	C ₁₆ H ₁₈ BrCl ₂ N ₃ O ₃
Molecular Weight:	451.14
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	Halofuginone hydrochloride (RU-19110), a derivative of Febrifugine, functions as a competitive inhibitor of prolyl-tRNA synthetase, displaying a K_i value of 18.3 nM. This compound effectively inhibits type-I collagen synthesis, providing therapeutic benefits in osteoarthritis (OA) by impeding TGF- β signaling. Additionally, it serves as a potent pulmonary vasodilator, mainly through the activation of Kv channels and the inhibition of various calcium channels including voltage-gated, receptor-operated, and store-operated ones. Beyond its vascular effects, Halofuginone hydrochloride exhibits a broad spectrum of biological activities, including anti-malarial, anti-inflammatory, anti-cancer, and anti-fibrotic properties, supported by multiple studies.
Targets(IC50)	Others, Calcium Channel, Parasite, DNA/RNA Synthesis, Sodium Channel, TGF-beta/Smad

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2166 mL	11.083 mL	22.1661 mL
5 mM	0.4433 mL	2.2166 mL	4.4332 mL
10 mM	0.2217 mL	1.1083 mL	2.2166 mL
50 mM	0.0443 mL	0.2217 mL	0.4433 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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