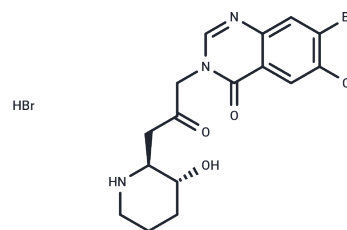


Halofuginone hydrobromide

Chemical Properties

CAS No. :	64924-67-0
Formula:	C ₁₆ H ₁₇ BrClN ₃ O ₃ .HBr
Molecular Weight:	495.59
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Halofuginone specifically inhibits collagen type I gene expression and matrix metalloproteinase 2 (MMP-2) gene expression, which may result in the suppression of angiogenesis, tumor stromal cell development, and tumor cell growth. Halofuginone Hydrobromide is the hydrobromide salt of halofuginone, a semisynthetic quinazolinone alkaloid anticoccidial derived from the plant <i>Dichroa febrifuga</i> , with antifibrotic and potential antineoplastic activities. These effects appear to be due to halofuginone-mediated inhibition of the collagen type I and MMP-2 promoters. Collagen type I and MMP-2 play important roles in fibroproliferative diseases.
Targets(IC50)	Others,Calcium Channel,DNA/RNA Synthesis,Sodium Channel,Parasite,TGF-beta/Smad

Solubility Information

Solubility	DMSO: 49.6 mg/mL (100 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0178 mL	10.089 mL	20.178 mL
5 mM	0.4036 mL	2.0178 mL	4.0356 mL
10 mM	0.2018 mL	1.0089 mL	2.0178 mL
50 mM	0.0404 mL	0.2018 mL	0.4036 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.

Reference

Kaduk J A, Gates-Rector S, Blanton T N. Crystal structure of halofuginone hydrobromide, C₁₆H₁₈BrClN₃O₃Br. Powder Diffraction. 2022: 1-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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