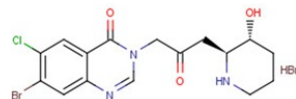


Product Name	: Halofuginone hydrobromide
Synonyms	: Halofuginone HBr; Halofuginone-HBr
Cat No.	: M18953
CAS Number	: 64924-67-0
Molecular Formula	: C ₁₆ H ₁₇ BrClN ₃ O ₃ · HB
Formula Weight	: 495.59
Chemical Name	: (2R*,3S*)-7-Bromo-6-chloro-3-[3-(3-hydroxy-2-piperidiny)-2-oxopropyl]-4-3H-quinazolinone hydrobromide
Description	<p>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.</p>
Pathway	: Others
Target	: Other Targets
Receptor	: ProRS
Solubility	: DMSO : 50 mg/mL 100.89 mM;
SMILES	: <chem>C1C[C@H]([C@@H](NC1)CC(=O)Cn1cnc2cc(c(cc2c1=O)Cl)Br)O.Br</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1. Zhou H. et al. ATP-directed capture of bioactive herbal-based medicine on human tRNA synthetase. *Nature*. 2013 Feb 7;494(7435):121-4.