

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## Product Datasheet

### Halofuginone HBr, CAS [[64924-67-0]] FBM-10-2381

Article Name	Halofuginone HBr, CAS [[64924-67-0]]
Biozol Catalog Number	FBM-10-2381
Supplier Catalog Number	10-2381
Alternative Catalog Number	FBM-10-2381-10MG,FBM-10-2381-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Prolyl-tRNA synthase inhibitor...
Molecular Weight	495.60
Purity	>98% by TLC NMR (Conforms)
Form	White solid
CAS Number	[64924-67-0]
Formula	C16H17BrClN3O3 HBr
Application Notes	Potent and selective prolyl-tRNA synthetase (PRS) inhibitor (Ki=18.3 nM) derived from febrifugine. <sup>1</sup> Also attenuates TGF-beta signaling, including reversibly reducing Smad3 protein levels and inhibiting fibroblast differentiation. <sup>2</sup> Blocks fibrosis, angiogenesis, and tumor progression. <sup>2,3</sup> Inhibition of PRS results in amino acid starvation which activates the integrated stress response (ISR) and mTOR signaling <sup>4</sup> and thus preventing differentiation of TH17 cells, suppressing the autoimmune response <sup>5</sup> . Reduces TMPRSS2 protein levels via enhanced ubiquitination and proteasomal degradation, limiting SARS-CoV-2 cellular entry. <sup>6</sup>