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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 synthetase 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 ($K_i=18.3$ nM) derived from febrifugine. ¹ Also attenuates TGF-beta signaling, including reversibly reducing Smad3 protein levels and inhibiting fibroblast differentiation. ² Blocks fibrosis, angiogenesis, and tumor progression. ^{2,3} Inhibition of PRS results in amino acid starvation which activates the integrated stress response (ISR) and mTOR signaling ⁴ and thus preventing differentiation of TH17 cells, suppressing the autoimmune response ⁵ . Reduces TMPRSS2 protein levels via enhanced ubiquitination and proteasomal degradation, limiting SARS-CoV-2 cellular entry. ⁶