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## Product Datasheet

### Harmin HCl, CAS [[343-27-1]] FBM-10-4520

Article Name	Harmin HCl, CAS [[343-27-1]]
Biozol Catalog Number	FBM-10-4520
Supplier Catalog Number	10-4520
Alternative Catalog Number	FBM-10-4520-25MG, FBM-10-4520-100MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	MAO-A and DYRK inhibitor...
Molecular Weight	248.71
Purity	>98% (TLC: 10% Methanol/methylene chloride + 0.5% NH <sub>4</sub> OH, R <sub>f</sub> = 0.50)
Form	White solid
CAS Number	[343-27-1]
Formula	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> OHCl

Application Notes	<p>Selective competitive and reversible inhibitor of MAO-A (<math>IC_{50} = 8 \mu M</math>).<sup>1</sup> Harmine is a potent and specific inhibitor of both the kinase activity and autophosphorylation of tyrosine during translation DYRK1A (<math>IC_{50}</math>s: DYRKA1A = 33 nM, DYRKA1B = 166 nM, DYRK2 = 1.9 <math>\mu M</math>, DYRK4 = 80 <math>\mu M</math>).<sup>2,3</sup> Inhibits self-renewal and promotes differentiation of glioblastoma stem-like cells(GSLCs) possibly via inhibition of Akt phosphorylation.<sup>4</sup> Harmine has also been shown to possess antimicrobial, antifungal, antiplasmodial, antitumor, antioxidant, antimutagenic and antigenotoxic properties.<sup>5</sup> Inhibits osteoclast differentiation and bone resorption via downregulation of c-Fos and NFATc1 induced by RANKL.<sup>6</sup></p>
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