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## Product Datasheet

### Harmine HCl, CAS [[343-27-1]]

### FBM-10-4520

Article Name	Harmine 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% NH4OH, Rf = 0.50)
Form	White solid
CAS Number	[343-27-1]
Formula	C13H12N2OHCl

Application Notes

Selective competitive and reversible inhibitor of MAO-A (IC<sub>50</sub> = 8  $\mu$ M).<sup>1</sup> Harmine is a potent and specific inhibitor of both the kinase activity and autophosphorylation of tyrosine during translation DYRK1A (IC<sub>50</sub>s: DYRK1A = 33 nM, DYRK1B = 166 nM, DYRK2 = 1.9  $\mu$ M, DYRK4 = 80  $\mu$ M).<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>