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Product Datasheet

Monastrol, CAS [[254753-54-3]] FBM-10-2629

Article Name	Monastrol, CAS [[254753-54-3]]
Biozol Catalog Number	FBM-10-2629
Supplier Catalog Number	10-2629
Alternative Catalog Number	FBM-10-2629-5MG, FBM-10-2629-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Kinesin Eg5 and mitosis inhibitor...
Molecular Weight	292.35
Purity	98% by TLC NMR (Conforms)
Form	Beige solid
CAS Number	[254753-54-3]
Formula	C ₁₄ H ₁₆ N ₂ O ₃ S
Application Notes	Potent, cell-permeable, small molecule inhibitor of mitosis. Monastrol-arrested cells are characterized by monopolar spindles. ¹ Does not affect other motor proteins or tubulin. Specifically inhibits the mitotic molecular motor kinesin Eg5, a motor protein required for spindle formation (IC ₅₀ = 14 µM). ² Mimics the effect of amyloid beta on long term potentiation in a cellular model of learning and memory. ³ Enhances regeneration of adult axons. ⁴