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Product Datasheet

Metformin HCl, CAS [[1115-70-4]] FBM-10-2469

Article Name	Metformin HCl, CAS [[1115-70-4]]
Biozol Catalog Number	FBM-10-2469
Supplier Catalog Number	10-2469
Alternative Catalog Number	FBM-10-2469-5G,FBM-10-2469-25G
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Anti-diabetic agent...
Molecular Weight	165.63
Purity	98%, NMR (Conforms)
Form	White solid
CAS Number	[1115-70-4]
Formula	C ₄ H ₁₁ N ₅ HCl
Application Notes	Clinically useful antidiabetic agent. Lowers plasma glucose levels and improves insulin sensitivity. Inhibits hepatic gluconeogenesis by activation of the AMP-activated protein kinase (AMPK) pathway. ^{1,2} Displays antiproliferative and pro-apoptotic actions in a variety of cancer cell lines. ^{3,4} Induces autophagy via inhibition of the mTOR pathway. Activates PGC1 and improves mitochondrial dynamics in renal tubular cells. ⁵ Upregulates SIRT1 activity in endothelial cells. ⁶ Neuroprotective and lowers -synuclein phosphorylation in the Parkinsons disease MPTP mouse model. ⁷