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Product Datasheet

Koningic acid, CAS [[74310-84-2]] FBM-10-3326

Article Name	Koningic acid, CAS [[74310-84-2]]
Biozol Catalog Number	FBM-10-3326
Supplier Catalog Number	10-3326
Alternative Catalog Number	FBM-10-3326-200UG, FBM-10-3326-1MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Glyceraldehyde-3-phosphate dehydrogenase inhibitor...
Molecular Weight	280.32
Purity	95% by HPLC, NMR (Conforms)
Form	Off-white solid
CAS Number	[74310-84-2]
Formula	C15H20O5
Application Notes	Koningic acid (KA) is a potent and selective inhibitor of glyceraldehyde-3-phosphate dehydrogenase (GAPDH). ¹ Inhibition is irreversible and proceeds via nucleophilic attack of an active site cysteine on the epoxide moiety ² , $K_i = 1.1 \mu\text{M}$ for rabbit muscle GAPDH ³ . KA can selectively kill high-glycolytic cancer cells via glucose dependent ATP depletion. ⁴ Has been used in a predictive model for selective targeting of the Warburg effect, the most prominent hallmark of cancer cell metabolism. ⁵