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Product Datasheet

Lonidamine, CAS [[50264-69-2]] FBM-10-4563

Artikelname	Lonidamine, CAS [[50264-69-2]]
Artikelnummer	FBM-10-4563
Hersteller Artikelnummer	10-4563
Alternativnummer	FBM-10-4563-10MG,FBM-10-4563-50MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Cancer cell metabolism inhibitor...
Molekulargewicht	321.16
Reinheit	98% by TLC, NMR (Conforms)
Formulierung	white solid
CAS Nummer	[50264-69-2]
Formel	C15H10Cl2N2O2

Anwendungsbeschreibung	Lonidamine was originally investigated as an antispermatogenic agent.¹ Lonidamine has been shown to decrease oxygen consumption as well as aerobic and anaerobic glycolysis in tumor cells leading to apoptosis.² These effects have been attributed to the ability of lonidamine to inhibit mitochondrially bound hexokinase ($IC_{50} = 90 \mu M$ for aerobic glycolysis, $45 \mu M$ for anaerobic glycolysis using Ehrlich ascites tumor cells)². The apoptotic effects of lonidamine have also been attributed to its ability to disrupt the mitochondrial transmembrane potential³, intracellular acidification by inhibition of lactate efflux⁴, and inhibition of mitochondrial pyruvate (MCP) and monocarboxylate transporter (MCT)⁵.
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