

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

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

Article Name	Lonidamine, CAS [[50264-69-2]]
Biozol Catalog Number	FBM-10-4563
Supplier Catalog Number	10-4563
Alternative Catalog Number	FBM-10-4563-10MG,FBM-10-4563-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Cancer cell metabolism inhibitor...
Molecular Weight	321.16
Purity	98% by TLC, NMR (Conforms)
Form	white solid
CAS Number	[50264-69-2]
Formula	C15H10Cl2N2O2
Application Notes	<p>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 (IC₅₀ = 90 µM for aerobic glycolysis, 45 µM 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.</p>