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## Product Datasheet

**Lonidamine**  
**FBM-10-4563**

Article Name	Lonidamine
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.<sup>1</sup> Lonidamine has been shown to decrease oxygen consumption as well as aerobic and anaerobic glycolysis in tumor cells leading to apoptosis.<sup>2</sup> These effects have been attributed to the ability of lonidamine to inhibit mitochondrially bound hexokinase (IC<sub>50</sub> = 90 μM for aerobic glycolysis, 45 μM for anaerobic glycolysis using Ehrlich ascites tumor cells)<sup>2</sup>. The apoptotic effects of lonidamine have also been attributed to its ability to disrupt the mitochondrial transmembrane potential<sup>3</sup>, intracellular acidification by inhibition of lactate efflux<sup>4</sup>, and inhibition of mitochondrial pyruvate (MCP) and monocarboxylate transporter (MCT)<sup>5</sup>.</p>