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## Product Datasheet

### Lonidamine FBM-10-4563

|                          |                                     |
|--------------------------|-------------------------------------|
| Artikelname              | Lonidamine                          |
| 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.<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>.