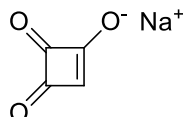


Moniliformin

Code No.: **BIA-M1269**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : Semisquaric acid sodium salt

Specifications

CAS #	: 71376-34-6
Molecular Formula	: C ₄ H ₃ O ₃ Na
Molecular Weight	: 120
Source	: <i>Fusarium moniliforme</i>
Appearance	: Pale yellow powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Moniliformin is a potent, water-soluble mycotoxin produced by several species of *Fusarium*. Comparative toxicity studies of moniliformin in chicken cell lines revealed no toxicity to chondrocytes and macrophages, but toxicity to splenocytes, cardiac and skeletal myocytes. Moniliformin selectively inhibits mitochondrial oxidization of pyruvate and α-ketoglutarate, however the mode of action is not yet completely resolved.

References

1. Comparative cytotoxicity of fumonisin B1 and moniliformin in chicken primary cell cultures. Wu W. et al., Mycopathologia 1995, 132, 111.
2. A molecular mechanism for the toxic action of moniliformin, a mycotoxin produced by *Fusarium moniliforme*. Thiel P. G. Biochem. Pharmacol. 1978, 27, 483.
3. Moniliformin, a metabolite of *Fusarium moniliforme* NRRL 6322: purification and toxicity. Burmeister H. R. et al., Appl. Environ. Microbiol. 1979, 37, 11.