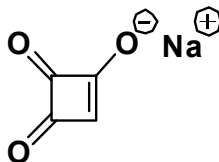


Moniliformin

Code: **BIA-M1269**

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



Synonyms : **Semisquaric acid sodium salt**

Specifications

CAS # : **52591-22-7**
Molecular Formula : **C₄HNO₃Na**
Molecular Weight : **120.0**
Source : ***Fusarium moniliforme***
Appearance : **Pale yellow powder**
Purity : **> 99% by TLC**
Storage : **-20°C**
Solubility : **Soluble in water, methanol and DMSO**

Application Notes

Moniliformin is a potent, water-soluble mycotoxin produced by several species of *Fusarium*. Comparative studies of the toxicity of moniliformin to 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.