

Product Name: A23187*Item No.: MED14394*Purity Specification: $\geq 98\%$ Molecular Formula : C₂₉H₃₇N₃O₆

CAS Number: 52662-69-7 Formula Weight : 523.620588064194

Storage: -20°C

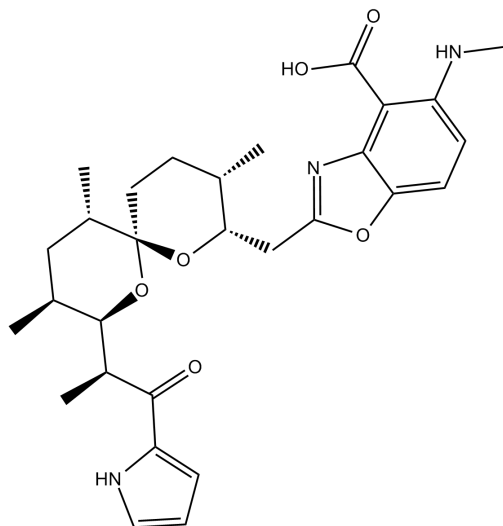
DESCRIPTION

A23187 is supplied as a crystalline solid. A stock solution may be made by dissolving the A23187 in the solvent of choice, which should be purged with an inert gas. A23187 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of A23187 in these solvents is approximately 1 and 10 mg/ml, respectively.

A23187 is a calcium ionophore and a microbial metabolite that has been found in *S. chartreusensis*.^{1,2} It induces calcium overload and mitochondrial apoptosis in HEK293 cells when used at a concentration of 5 μM .¹ A23187 (5 μM) induces the production of reactive oxygen species (ROS) and neutrophil extracellular trap (NET) formation in primary human neutrophils in a myeloperoxidase-, neutrophil elastase-, and citrullination-independent manner.

REFERENCES

1. Cho, S.-Y., Lee, J.-H., Bae, H.-D., et al. Transglutaminase 2 inhibits apoptosis induced by calcium-overload through down-regulation of Bax. *Exp. Mol. Med.* 42(9), 639-650 (2010).
2. Kenny, E.F., Herzig, A., Krüger, R., et al. Diverse stimuli engage different neutrophil extracellular trap pathways. *eLife* 6, e24437 (2017).

Structure :


Conclusion: This batch of products conform the quality inspection standard of the manufacturer