Conoidin A
Item No. 15605

CAS Registry No.: 18080-67-6
Formal Name: 2,3-bis(bromomethyl)-quinoxaline 1,4-dioxide
MF: C_{10}H_{8}Br_{2}N_{2}O_{2}
FW: 348.0
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max}^\text{UV/Vis.}: 240, 278, 391 nm

Conoidin A is supplied as a crystalline solid. A stock solution may be made by dissolving the conoidin A in the solvent of choice. Conoidin A is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of conoidin A in these solvents is approximately 20 and 25 mg/ml, respectively.

Conoidin A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, conoidin A should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Conoidin A has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Peroxiredoxins are a widely conserved family of enzymes that function in antioxidant defense and act in redox signaling pathways. Increased expression of human peroxiredoxin is associated with cancer, cardiovascular dysfunction, and neurodegeneration. Conoidin A inactivates peroxiredoxins by covalently binding to the catalytic cysteine on the enzyme.\(^1\)\(^2\) It has been shown to inhibit peroxiredoxin II (IC\(_{50}\) = 23 \(\mu\)M) in the parasite \(T. gondii\) and peroxiredoxin I in the hookworm \(A. ceylanicum\).\(^1\)\(^3\) At 5 \(\mu\)M, conoidin A can also inhibit the glucose oxidase-mediated hyperoxidation of mammalian peroxiredoxin I and II, but not peroxiredoxin III.\(^1\)

References

Related Products
For a list of related products please visit: \text{www.caymanchem.com/catalog/15605}

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Related Products
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WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.