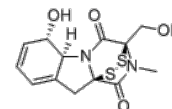


Product Name : Gliotoxin
Cat. No. : PC-21193
CAS No. : 67-99-2
Molecular Formula : C₁₃H₁₄N₂O₄S₂
Molecular Weight : 326.39
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Gliotoxin (Aspergillin) is a virulence factor of *Aspergillus fumigatus*, functions as a potent and selective inhibitor of the epoxide hydrolase activity of LTA4 hydrolase (LTA4H), selectively inhibits LTB₄ biosynthesis.

Gliotoxin selectively suppresses LTB₄ biosynthesis and blocks neutrophil recruitment in vivo.

Gliotoxin potently and selectively inhibits LTB₄ biosynthesis in human neutrophils and monocytes (IC₅₀=0.8 μM).

Gliotoxin efficiently reduces LTB₄ formation but failed to inhibit the aminopeptidase activity up to 10 μM in human neutrophils.

Gliotoxin causes specific suppression of LTB₄ biosynthesis without inhibiting the formation of additional products from the same substrate (i.e., LTA₄) or related LMs generated by other enzymatic eicosanoid pathways.

References

König S, et al. Cell Chem Biol. 2019 Apr 18;26(4):524-534.e5.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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