

Gliotoxin-13C13 Biochemical

Gliotoxin-13C13

CATALOG #
AAA227071

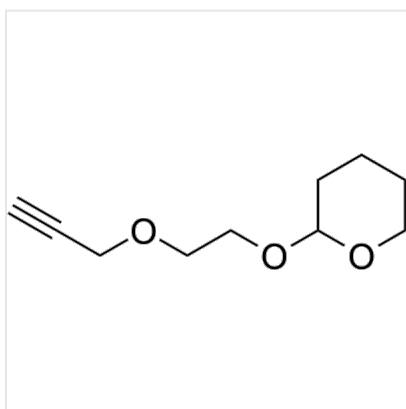
PRODUCT SYNONYMS

Gliotoxin-13C13; Gliotoxin-13C13 biochemical

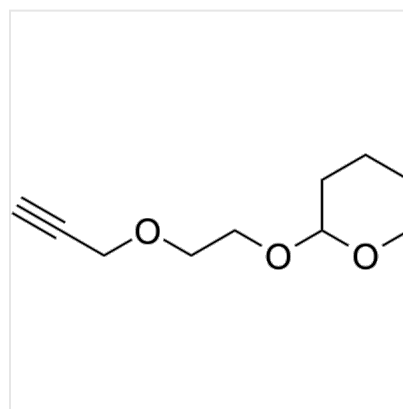
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	Acetonitrile: 3mg/mL <1mg/ml refers to the product slightly soluble or insoluble
In vitro	In vivo, gliotoxin (5 mg/kg) reduces LTB ₄ plasma levels and blocks peritoneal neutrophil infiltration in a mouse model of peritonitis induced by zymosan A. It also inhibits geranylgeranyltransferase I and farnesyltransferase (IC ₅₀ s = 17 and 80 uM, respectively). ⁸
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Propargyl-PEG1-THP, CAS 119096-95-6



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ADDITIONAL INFORMATION

Related Product Information for Gliotoxin-13C13 biochemical	Gliotoxin-13C13 is intended for use as an internal standard for the quantification of gliotoxin by GC- or LC-MS. Gliotoxin is an immunosuppressive mycotoxin produced by pathogenic strains of <i>Aspergillus</i> and other fungi with diverse biological activities. ^{1,2,3,4,5,6,7,8} It inhibits 20S proteasomal chymotrypsin activity (IC ₅₀ = 10 uM), blocking the degradation of IκBα and preventing the activation of NF-κB. ^{2,3} Gliotoxin induces apoptosis in monocytes and dendritic cells and reduces phagocytosis by neutrophils. ^{4,5} It suppresses viral infection by Nipah and Hendra virus in HEK293T cells (IC ₅₀ s = 149 and 579 nM, respectively). ⁶ Under reducing conditions, gliotoxin inhibits leukotriene A ₄ hydrolase epoxide hydrolase activity, but not aminopeptidase activity, and leukotriene B ₄ synthesis in neutrophils and monocytes. ⁷
References	1. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. <i>EBioMedicine</i> . 2018 Oct;36:553-562

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/gliotoxin-13c13/227071>