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DATASHEET

Gliotoxin

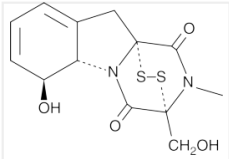
Product overview

Name	Gliotoxin
Cat No	HB4612
Description	Immunosuppressive agent
Alternative names	Aspergillin
Biological action	Other

Solubility & Handling

Storage instructions	-20 °C (desiccate)
Solubility overview	Soluble in DMSO or ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(3 <i>R</i> ,5 <i>a</i> <i>S</i> ,6 <i>S</i> ,10 <i>a</i> <i>R</i>)-2,3,5 <i>a</i> ,6-Tetrahydr o-6-hydroxy-3-(hydroxymethyl)-2-methyl-10 <i>H</i> -3,10 <i>a</i> -e-pidithiopyrazino[1,2- <i>a</i>]indole-1,4-dione
Molecular Weight	326.38
Chemical structure	 The chemical structure of Gliotoxin is a complex bicyclic system. It features a benzene ring fused to a five-membered ring containing a nitrogen atom and a sulfur atom. The sulfur atom is part of a disulfide bridge (S-S) that connects to another sulfur atom, which is in turn bonded to a nitrogen atom. This nitrogen atom is part of a five-membered ring containing a carbonyl group (C=O) and a hydroxymethyl group (CH2OH). The overall structure is highly substituted with various functional groups.
Molecular Formula	C ₁₃ H ₁₄ N ₂ O ₄ S ₂
CAS Number	67-99-2
PubChem identifier	6223
SMILES	O=C([C@@]2(SS4)N(C([C@@]43CO)=O)[C@@H]1[C@@H](O)C=CC=C1C2)N3C
InChiKey	FIVPIPIDMRVLAY-RBJBARPLSA-N