

Product Name: Givinostat hydrochloride

Catalog No.: 6249

Batch No.: 1

CAS Number: 199657-29-9

IUPAC Name: [6-[(Diethylamino)methyl]-2-naphthalenyl]methyl-*N*-[4-[(hydroxyamino)carbonyl]phenyl]carbamate hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₇N₃O₄.HCl.H₂O

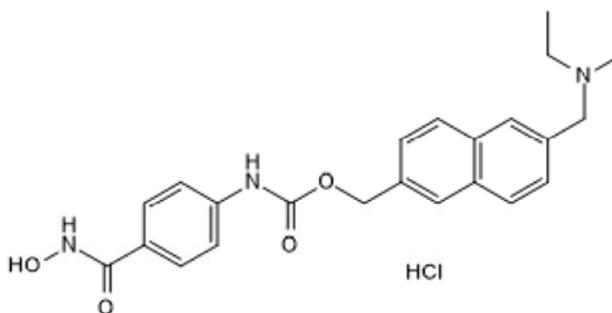
Batch Molecular Weight: 475.97

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.56	6.35	8.83
Found	60.44	6.29	8.75

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Histone deacetylase (HDAC) inhibitor (IC_{50} = 7.5 to 16 nM). At low concentrations reduces release of pro-inflammatory cytokines, including TNF α , INF γ , IL-1 α and IL-1 β , from LPS stimulated PBMCs *in vitro*. Exhibits anti-inflammatory effects *in vivo*. Improves functional recovery and attenuates tissue damage in a mouse model of traumatic brain injury.

Physical and Chemical Properties:

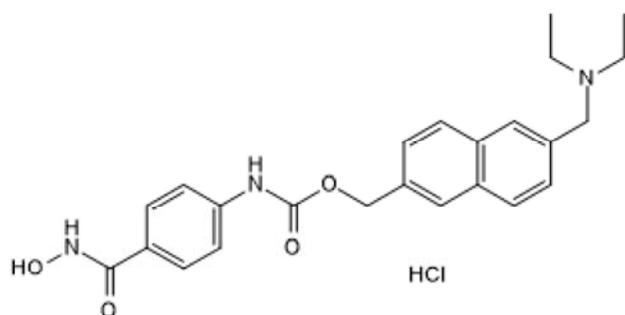
Batch Molecular Formula: C₂₄H₂₇N₃O₄.HCl.H₂O

Batch Molecular Weight: 475.97

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Shein *et al* (2009) Histone deacetylase inhibitor ITF2357 is neuroprotective, improves functional recovery, and induces glial apoptosis following experimental traumatic brain injury. *FASEB.J.* **23** 4266. PMID: 19723705.

Leoni *et al* (2005) The histone deacetylase inhibitor ITF2357 reduces production of pro-inflammatory cytokines *in vitro* and systemic inflammation *in vivo*. *Mol.Med.* **11** 1. PMID: 16557334.

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