

Product Name: GlyH 101

Catalog No.: 5485

Batch No.: 1

CAS Number: 328541-79-3

IUPAC Name: *N*-2-Naphthalenyl-2-[(3,5-dibromo-2,4-dihydroxyphenyl)methylene]glycine hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₅Br₂N₃O₃·¼H₂O

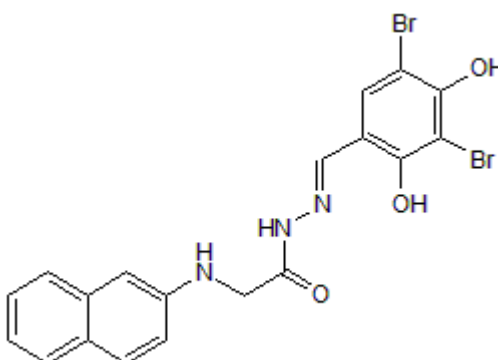
Batch Molecular Weight: 497.65

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.86	3.14	8.44
Found	45.81	3.08	8.45

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

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Description:

Reversible, voltage-dependent CFTR chloride channel blocker ($K_i = 4.3 \mu\text{M}$). Inhibits forskolin-induced hyperpolarization in nasal potential differences and inhibits cholera toxin-induced intestinal fluid secretion in mice.

Physical and Chemical Properties:

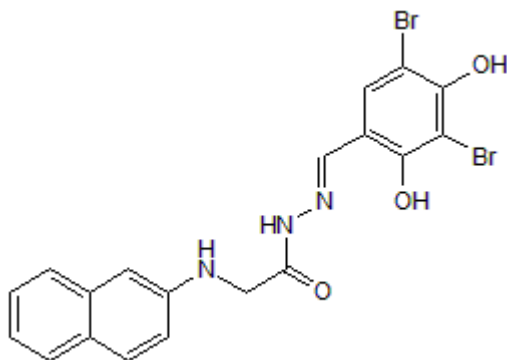
Batch Molecular Formula: $\text{C}_{19}\text{H}_{15}\text{Br}_2\text{N}_3\text{O}_3 \cdot \frac{1}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 497.65

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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 $45\text{-}60^\circ\text{C}$ 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:

Muanprasat et al (2004) Discovery of glycine hydrazide pore-occluding CFTR inhibitors: mechanism, structure-activity analysis, and *in vivo* efficacy. *J.Gen.Physiol.* **124** 125. PMID: 15277574.

Norimatsu et al (2012) Locating a plausible binding site for an open-channel blocker, GlyH-101, in the pore of the cystic fibrosis transmembrane conductance regulator. *Mol.Pharmacol.* **82** 1042. PMID: 22923500.

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