

Product Name: Pamoic acid disodium salt

Catalog No.: 4298

Batch No.: 1

CAS Number: 6640-22-8

IUPAC Name: 4,4'-Methylenebis(3-hydroxy-2-naphthalenecarboxylic acid) disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{14}Na_2O_6 \cdot H_2O$

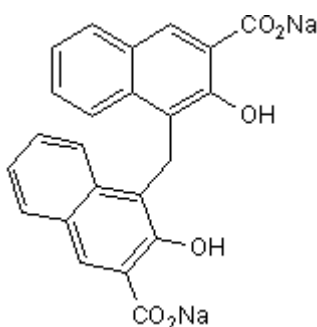
Batch Molecular Weight: 450.35

Physical Appearance: Pale yellow solid

Solubility: water to 100 mM
DMSO to 75 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 61.34 3.58

Found 60.96 3.61

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

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

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Description:

GPR35 agonist. Induces GPR35 internalization and activates ERK1/2 (EC₅₀ values are 22 and 65 nM respectively).

Mediates recruitment of β -arrestin2 to GPR35. Also exhibits antinociceptive effects in a mouse model of visceral pain.

Physical and Chemical Properties:

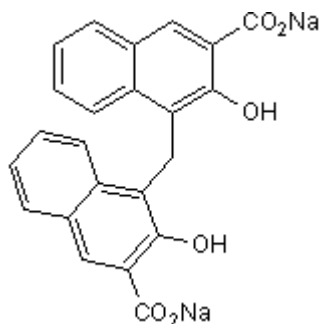
Batch Molecular Formula: C₂₃H₁₄Na₂O₆·H₂O

Batch Molecular Weight: 450.35

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 75 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:

Zhao *et al* (2010) Targeting of the orphan receptor GPR35 by pamoic acid: a potent activator of extracellular signal-regulated kinase and β -arrestin2 with antinociceptive activity. *Mol.Pharmacol.* **78** 560. PMID: 20826425.

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