

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Pamoic acid disodium salt

**Catalog No.:** 4298

**Batch No.:** 1

CAS Number: 6640-22-8

EC Number: 229-653-1

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

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

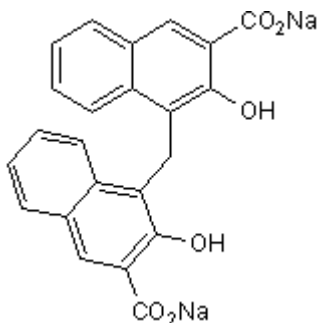
**Batch Molecular Weight:** 450.35

**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

**<sup>1</sup>H 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

**Product Name:** Pamoic acid disodium salt

**Catalog No.:** 4298

**Batch No.:** 1

CAS Number: 6640-22-8

EC Number: 229-653-1

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

**Description:**

GPR35 agonist. Induces GPR35 internalization and activates ERK1/2 (EC<sub>50</sub> 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:**

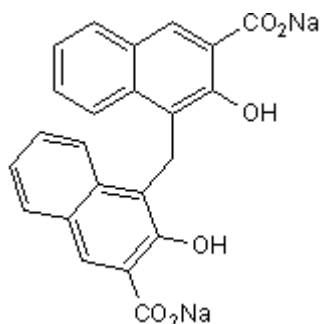
Batch Molecular Formula: C<sub>23</sub>H<sub>14</sub>Na<sub>2</sub>O<sub>6</sub>.H<sub>2</sub>O

Batch Molecular Weight: 450.35

Physical Appearance: Pale yellow solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**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.

**Jenkins *et al*** (2012) Antagonists of GPR35 display high species ortholog selectivity and varying modes of action. *J.Pharmacol.Exp.Ther.* **343** 683. PMID: 22967846.

**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.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956