

## Product Data Sheet

Product Name: Pamoic Acid

Cat. No.: GC44553

### Chemical Properties

Cas. No. 130-85-8

SMILES OC(C1=CC(C=CC=C2)=C2C(CC3=C(C=CC=C4)C4=CC(C(O)=O)=C3O)=C1O)=O

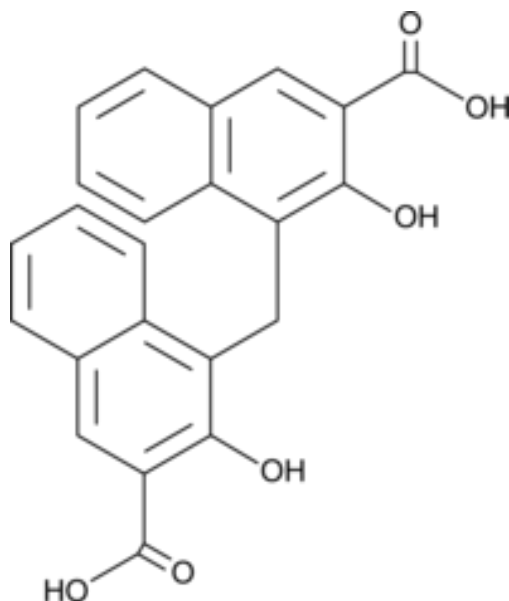
Formula C<sub>23</sub>H<sub>16</sub>O<sub>6</sub> M.Wt 388.4

Solubility DMSO: 0.2 mg/ml, Methanol: slightly soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Pamoic acid is a potent agonist of GPR35 orphan receptors (EC<sub>50</sub> = 79 nM in a  $\beta$ -arrestin recruitment assay). It induces GPR35 translocation from the plasma membrane to the cytoplasm with an EC<sub>50</sub> value of 22 nM. Pamoic acid also increases ERK1/2 phosphorylation in a concentration-dependent manner in U20S cells expressing human GPR35a. In vivo, pamoic acid has

**Caution: Product has not been fully validated for medical applications. For research use only.**

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antinociceptive effects with an ED50 value of 40.5 mg/kg in a mouse abdominal constriction model of visceral pain perception. Pamoate salts, of which pamoic acid is the main constituent, have been used in drug formulations to extend the duration of action.

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