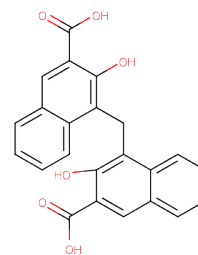


Pamoic acid

Chemical Properties

CAS No. :	130-85-8
Formula:	C ₂₃ H ₁₆ O ₆
Molecular Weight:	388.37
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pamoic acid is the orphan G protein-coupled receptor GPR35 agonist. Pamoic acid activates ERK and beta-arrestin2 and causes antinociceptive activity.
Targets(IC50)	ERK,GPCR
In vivo	pamoic acid induces a G(i/o)-linked, GPR35-mediated increase in the phosphorylation of extracellular signal-regulated kinase 1/2, recruitment of β -arrestin2 to GPR35, and internalization of GPR35.

Solubility Information

Solubility	DMSO: 27.5 mg/mL (70.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5749 mL	12.8743 mL	25.7486 mL
5 mM	0.515 mL	2.5749 mL	5.1497 mL
10 mM	0.2575 mL	1.2874 mL	2.5749 mL
50 mM	0.0515 mL	0.2575 mL	0.515 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhao P , Sharir H , Kapur A , et al. Targeting of the Orphan Receptor GPR35 by Pamoic Acid: A Potent Activator of Extracellular Signal-Regulated Kinase and β -Arrestin2 with Antinociceptive Activity[J]. Molecular Pharmacology, 2010, 78(4):560-568.

Naresh Mittapelly , Ramakrishna Rachumallu , Gitu Pandey,et al.Investigation of Salt Formation Between Memantine and Pamoic Acid: Its Exploitation in Nanocrystalline Form as Long Acting Injection.Eur J Pharm Biopharm. 2016 Apr;101:62-71.

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