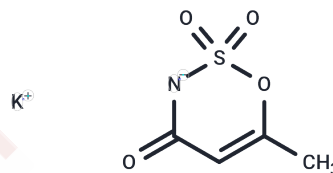


Acesulfame Potassium

Chemical Properties

CAS No. :	55589-62-3
Formula:	C ₄ H ₄ KNO ₄ S
Molecular Weight:	201.24
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Acesulfame potassium is a non-nutritive sweetener.
Targets(IC50)	Others
In vitro	In male Wistar rats, Acesulfame potassium (150 mg/kg) has been shown to induce insulin secretion.
In vivo	In cells expressing hTAS2R44 (EC ₅₀ =2.5 mM), Acesulfame potassium induces a significant increase in intracellular solute calcium (Ca ²⁺) levels.

Solubility Information

Solubility	H ₂ O: 37 mg/mL (183.86 mM), Sonication is recommended. DMSO: 55 mg/mL (273.31 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9692 mL	24.846 mL	49.6919 mL
5 mM	0.9938 mL	4.9692 mL	9.9384 mL
10 mM	0.4969 mL	2.4846 mL	4.9692 mL
50 mM	0.0994 mL	0.4969 mL	0.9938 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.

Reference

- Kuhn C, et al. J Neurosci, 2004, 24(45), 10260-10265.
Liang Y, et al. Horm Metab Res, 1987, 19(7), 285-289.
Zheng Y, et al. J Gastrointest Surg, 2013, 17(1), 153-158.
Dasgupta J, et al. Toxicol Appl Pharmacol, 2006, 217(2), 216-224.
Zhao GQ, et al. Cell, 2003, 115(3), 255-266.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481