Acesulfame potassium

Cat. No.: HY-D0195

CAS No.: 55589-62-3

Molecular Formula: $C_4H_4KNO_4S$

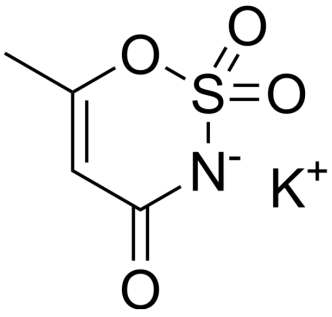
Molecular Weight: 201.24

Target: Biochemical Assay Reagents

Pathway: Others

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (248.46 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	4.9692 mL	24.8460 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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (12.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (12.42 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (12.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Acesulfame potassium is an artificial sweetener. Acesulfame potassium (long-term) affects cognitive functions, potentially via altering neuro-metabolic functions in mice[1].

REFERENCES

[1]. Cong WN, et al. Long-term artificial sweetener acesulfame potassium treatment alters neurometabolic functions in C57BL/6J mice. PLoS One. 2013 Aug 7;8(8):e70257.

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

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