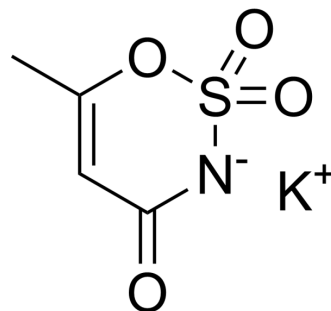


Acesulfame potassium

| | |
|---------------------------|--|
| Cat. No.: | HY-D0195 |
| CAS No.: | 55589-62-3 |
| Molecular Formula: | C ₄ H ₄ KNO ₄ S |
| 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) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 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 | <ol style="list-style-type: none"> 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 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 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.42 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

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|--------------------|--|
| 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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