

Product Information

Acesulfame potassium, Purity ≥98%

Cat. No.: X24-09-YM1410

Size: 100 mg; 250 mg; 500 mg; 1000 mg

MDL: MFCD00043833

CAS Number: 55589-62-3

Compound CID: 11074431

Synonym: 55589-62-3; Acesulfame K; Acesulfame-K; Potassium acesulfame; Otizon;

Acesulfame-potassium; Potassium acesulfamate; Potassium;

6-methyl-2,2-dioxo-1-oxa-2λ6-thia-3-azanidacyclohex-5-en-4-one



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Acesulfame potassium, soluble in DMSO and water and insoluble in ethanol, is a non-nutritive sweetener. The molecular weight of the compound is 202.25, and its molecular formula is C ₄ H ₅ NO ₄ S·K.
Molecular Weight	202.25
Molecular Formula	C ₄ H ₅ NO ₄ S·K
IUPAC Name	Potassium;6-methyl-2,2-dioxo-1-oxa-2λ6-thia-3-azanidacyclohex-5-en-4-one
InChI	InChI=1S/C4H5NO4S.K/c1-3-2-4(6)5-10(7,8)9-3;/h2H,1H3,(H,5,6);/q;+1/p-1
InChI Key	WBZFUFAFFUEMEI-UHFFFAOYSA-M
Canonical SMILES	CC1=CC(=O)[N-]S(=O)(=O)O1.[K+]
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 39 mg/mL (192.83 mM); Water: 39 mg/mL (192.83 mM); Ethanol: insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Acesulfame potassium plays a key role in providing sweetness without calories, thus affecting appetite regulation and glucose metabolism.
Storage	Store at -20°C, and keep desiccated.



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