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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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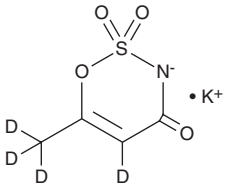
PRODUCT INFORMATION

Acesulfame-d_4 (potassium salt)

Item No. 27786

CAS Registry No.:	1623054-53-4
Formal Name:	6-(methyl-d_3)-1,2,3-oxathiazin-4(3H)-one-5-d, 2,2-dioxide, monopotassium salt
MF:	$C_4D_4NO_4S \bullet K$
FW:	205.3
Chemical Purity:	≥98% (Acesulfame)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Acesulfame-d_4 (potassium salt) is intended for use as an internal standard for the quantification of acesulfame by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Acesulfame-d_4 (potassium salt) is supplied as a solid. A stock solution may be made by dissolving the acesulfame-d_4 (potassium salt) in the solvent of choice, which should be purged with an inert gas. Acesulfame-d_4 (potassium salt) is slightly soluble in methanol.

Description

Acesulfame is a non-caloric sweetener used as a sugar alternative that is not metabolized by humans.[1] Excreted acesulfame has been found in wastewater and is considered a pollutant.

Reference

1. Wu, M., Qian, Y., Boyd, J.M., *et al.* Direct large volume injection ultra-high performance liquid chromatography-tandem mass spectrometry determination of artificial sweeteners sucralose and acesulfame in well water. *J. Chromatogr. A.* **1359**, 156-161 (2014).

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