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Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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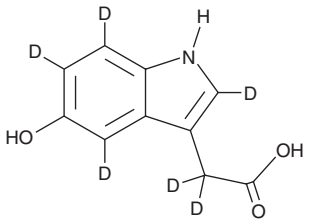
PRODUCT INFORMATION

5-hydroxy Indole-3-acetic Acid-d_6

Item No. 37199

CAS Registry No.: 2748469-82-9
Formal Name: 2-(5-hydroxy-1H-indol-3-yl-2,4,6,7-d_4)acetic-2,2-d_2 acid
Synonyms: 5-HIAA-d_6, 5-Hydroxyindoleacetic Acid-d_6, 5-hydroxy IAA-d_6
MF: $C_{10}H_3D_6NO_3$
FW: 197.2
Chemical Purity: ≥98% (5-hydroxy Indole-3-acetic Acid)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_6); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

5-hydroxy Indole-3-acetic acid-d_6 (5-HIAA-d_6) is intended for use as an internal standard for the quantification of 5-HIAA (Item No. 22889) 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).

5-HIAA-d_6 is supplied as a solid. A stock solution may be made by dissolving the 5-HIAA-d_6 in the solvent of choice, which should be purged with an inert gas. 5-HIAA-d_6 is soluble in organic solvents such as methanol, DMSO, and ethyl acetate.

Description

5-HIAA is a metabolite of the monoamine neurotransmitter serotonin (5-HT; Item No. 14332).[1] It is formed from serotonin *via* a 5-hydroxy indole-3-acetaldehyde intermediate by aldehyde dehydrogenase. 5-HIAA has been used as a biomarker for the detection of neuroendocrine tumors. Brain levels of 5-HIAA are decreased in patients with severe Alzheimer's disease.[2]

References

1. Corcuff, J.-B., Chardon, L., El Hajji Ridah, I., *et al.* Urinary sampling for 5HIAA and metanephrines determination: Revisiting the recommendations. *Endocr. Connect.* **6(6)**, R87-R98 (2017).
2. Vermeiren , Y., Van Dam, D., Aerts, T., *et al.* Monoaminergic neurotransmitter alterations in postmortem brain regions of depressed and aggressive patients with Alzheimer's disease. *Neurobiol. Aging* **35(12)**, 2691-2700 (2014).

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