



CERTIFICATE OF ANALYSIS

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1. Identification

CAS Number:

1020719-86-1

Catalogue Number:

TRC-S699087

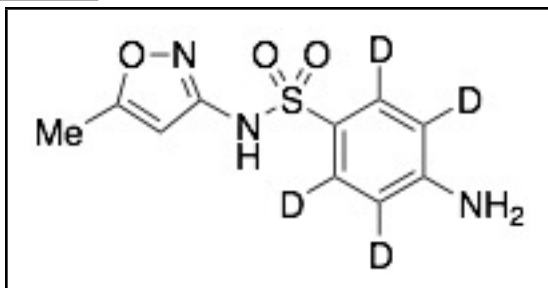
Product:

Sulfamethoxazole-d4

Synonyms:

4-Amino-N-(5-methyl-3-isoxazolyl)(benzene-d₄)sulfonamide; 3-(p-Amino(benzene-d₄)sulfonamido)-5-methylisoxazole; Sulfamethoxazole-d₄; 3-Sulfanilamido-5-methylisoxazole-d₄; 5-Methyl-3-sulfanilamidoisoxazole-d₄; Gantanol-d₄; MS 53-d₄; Radonil-d₄; Ro 4-2130-d₄; STX 608-d₄; Sinomin-d₄;

Structure:



Molecular Formula:

C₁₀H₇D₄N₃O₃S

Molecular Weight:

257.30

Source of Product:

Synthetic

2. Analytical Information

Lot Number:

2-JGC-154-1

Atmosphere:

Air

Melting Point:

167 - 169°C

Solubility

DMSO (Slightly), Methanol (Slightly)

Appearance of Product:

Pale Yellow Solid

Stability

Not Determined

Method for Determining Identity:

¹H NMR (DMSO-d₆) and MS

Long Term Storage Condition:

-20°C

Purity:

Chemical Purity: 98%

Isotopic Purity: 99.2%

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 9 : 1; Visualized with UV and Ninhydrin; Single Spot, R_f = 0.45.

¹H NMR and MS conform to structure.

Elemental Analysis: (Found) %C: 46.77, %H: 4.38, %N: 16.08; (Calculated) %C: 46.68, %H: 4.31, %N: 16.33

Normalized Intensity: d₀ = 0.01%, d₁ = 0.07%, d₂ = 0.02%, d₃ = 2.91%, d₄ = 96.99%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

Philip Chan, Head of Quality Assurance

QC Test Date

July 26, 2016

Retest Date

July 24, 2023