

**1. Identification**Catalogue Number

C988901

Lot Number

20-YKZ-45-1

Product Name

Cyclosporin A-13C2,d4 (Major)

Synonyms

Cyclosporine-13C2,d4; Ciclosporin-13C2,d4; Atopica-13C2,d4; Sandimmun(e)-13C2,d4; Neoral-13C2,d4; Optimmune-13C2,d4; Restasis-13C2,d4;

CAS Number

N/A

Solubility

Benzene (Slightly), Chloroform (Slightly)

Molecular Formula $C_{60}^{13}C_2H_{107}D_4N_{11}O_{12}$ Source of Product

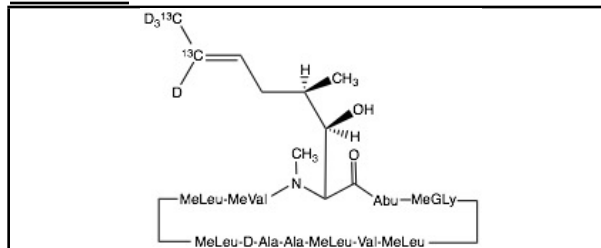
Synthetic

Molecular Weight

1208.62

Purity

>95%

StructureShipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Long Term Storage Conditions

4°C

2. Warnings

Not Determined

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	>95%	95.21% (200 nm)
MS	Conforms to Structure	Conforms

Additional InformationNormalized Intensity: $d_0 = 0.18\%$, $d_1 = 0.15\%$, $d_2 = 0.57\%$, $d_3 = 0.12\%$, $d_4 = 0.58\%$, $d_5 = 48.93\%$, $d_6 = 49.47\%$

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. 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.

4. Signatures

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			3/18/2024	3/16/2028
Henry Tieu	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		