



CERTIFICATE OF ANALYSIS

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1. Identification

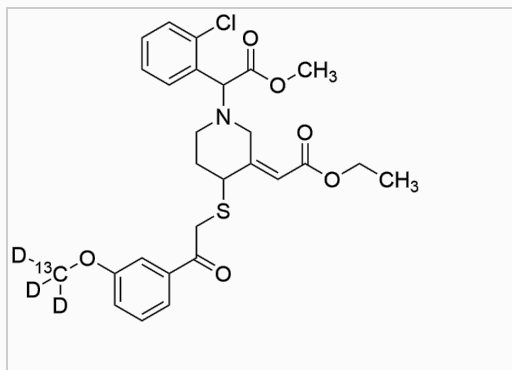
Catalogue Number: C587277

CAS Number: 1331383-23-3

Product: trans-Clopidogrel-MP-13C,d3 Ethyl Ester Derivative (Mixture of Diastereomers)

Synonym:

Structure:



Molecular Formula:

$C_{26}^{13}H_{27}D_3ClNO_6S$

Molecular weight:

536.06

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 30-MAR-77-3

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Light Yellow Thick Oil to Sticky Solid	Pale Yellow to Light Yellow Sticky Oil
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 56.55, %H: 5.33, %N: 2.40
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	96.53% (220 nm)
Isotopic Purity	>95%	99.1%

Additional Information:

Normalized Intensity: d0 = 0.17%, d1 = 0.00%, d2 = 0.93%, d3 = 1.02%, d4 = 97.88% Contains: ~1.9% Dichloromethane

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

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Chanell Chu	9/22/2022	9/20/2026