



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

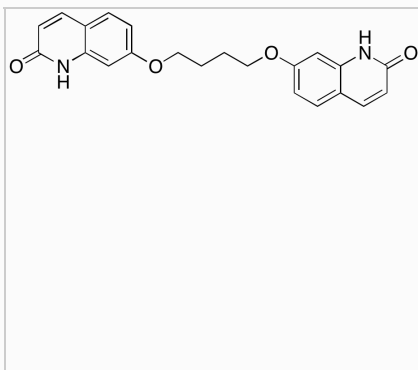
Catalogue Number: B677435

CAS Number: 2116542-19-7

Product: 7,7'-[(1,4-Butanediyl)bis(oxy)]bis-2(1H)quinolinone

Synonym: 7-[4-[(2-Oxo-1H-quinolin-7-yl)oxy]butoxy]-1H-quinolin-2-one; Brexpiprazole Impurity-12

Structure:



Molecular Formula:

C₂₂H₂₀N₂O₄

Molecular weight:

376.41

Source of Product:

Synthetic

Solubility:

DMSO (Slightly, Heated, Sonicated)

Lot Number: 15-DPM-119-2

Purity: 97%

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	Off-White to Pale Yellow Solid	Pale Yellow Solid
Elemental Analysis	Conforms	%C: 69.54, %H: 5.33, %N: 7.56
MS	Conforms to Structure	Conforms
NMR	Conforms to Structure	Conforms

Additional Information: Contains: ~1.3% DMF

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
Swathi Reddy	Toni Rantanen	Chanell Chu	3/17/2022	3/15/2026
