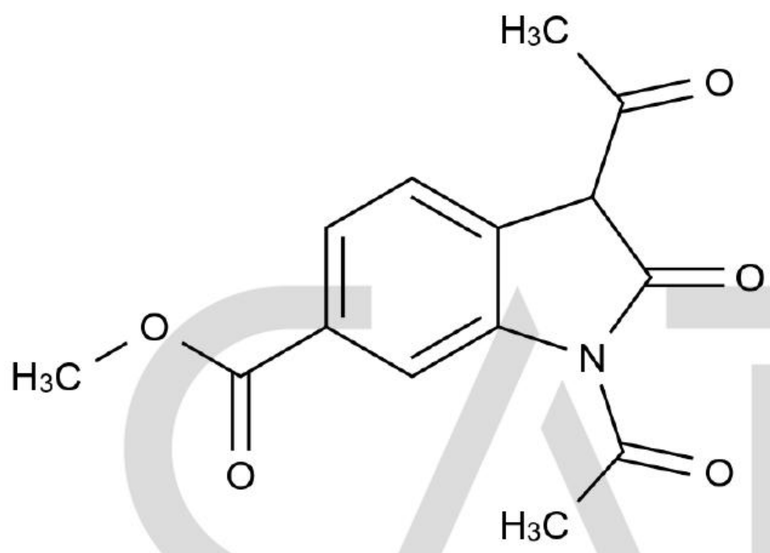
Certificate of Analysis

Reference Material & Standard

Product Name:	Nintedanib Impurity 84	**Catalogue Number:**	C4X-181484
Synonyms:	N/A	**Lot Number:**	1122-RH-0047
CAS Number:	2770008-35-8	**Expiry Date:**	Nov 24, 2030
Molecular Formula:	$C_{14}H_{13}NO_5$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	275.26	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.736%
Loss on Drying	TGA	0.0268%
Assay	Mass Balance	99.7%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Nov 25, 2026

Reviewed by: Koi Date: Nov 25, 2026

Approved by General Manager: David Date: Nov 25, 2026

CATO Research Chemicals Inc.