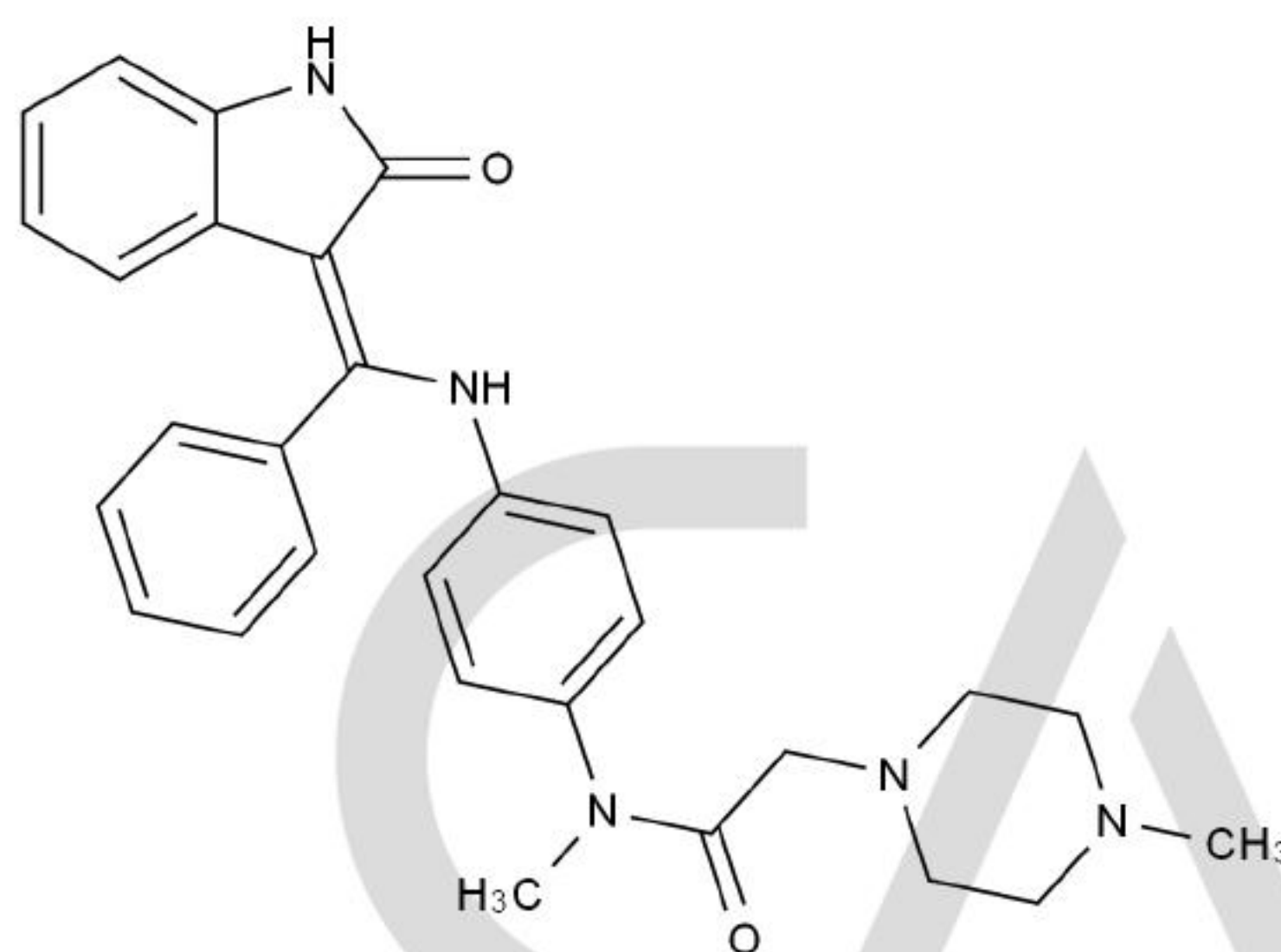


Certificate of Analysis

Reference Material & Standard

Product Name:	Nintedanib Impurity N5	Catalogue Number:	C4X-12665
Synonyms:	N-Methyl-2-(4-methyl-1-piperazinyl)-N-(4-[(Z)-(2-oxo-1,2-dihydro-3H-indol-3-ylidene)(phenyl)methyl]amino}phenyl)acetamide	Lot Number:	0821-RH-0078
CAS Number:	262366-32-5	Expiry Date:	Sep 07, 2030
Molecular Formula:	C ₂₉ H ₃₁ N ₅ O ₂	Storage:	-20°C±5°C Sealed
Molecular Weight:	481.60	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in DMSO	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.275%
Residue on Ignition	TGA	0.6401%
Loss on Drying	TGA	0.1857%
Assay	qNMR	98.0%
Assay	Mass Balance	97.5%

Comment:

- The retest date of this product is Sep 07, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Sep 08, 2026

Date: Sep 08, 2026

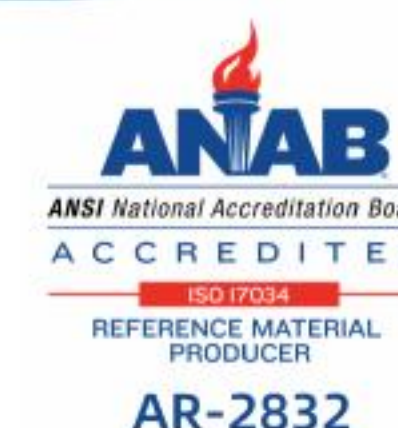
Date: Sep 08, 2026

Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>



Official
WeChat