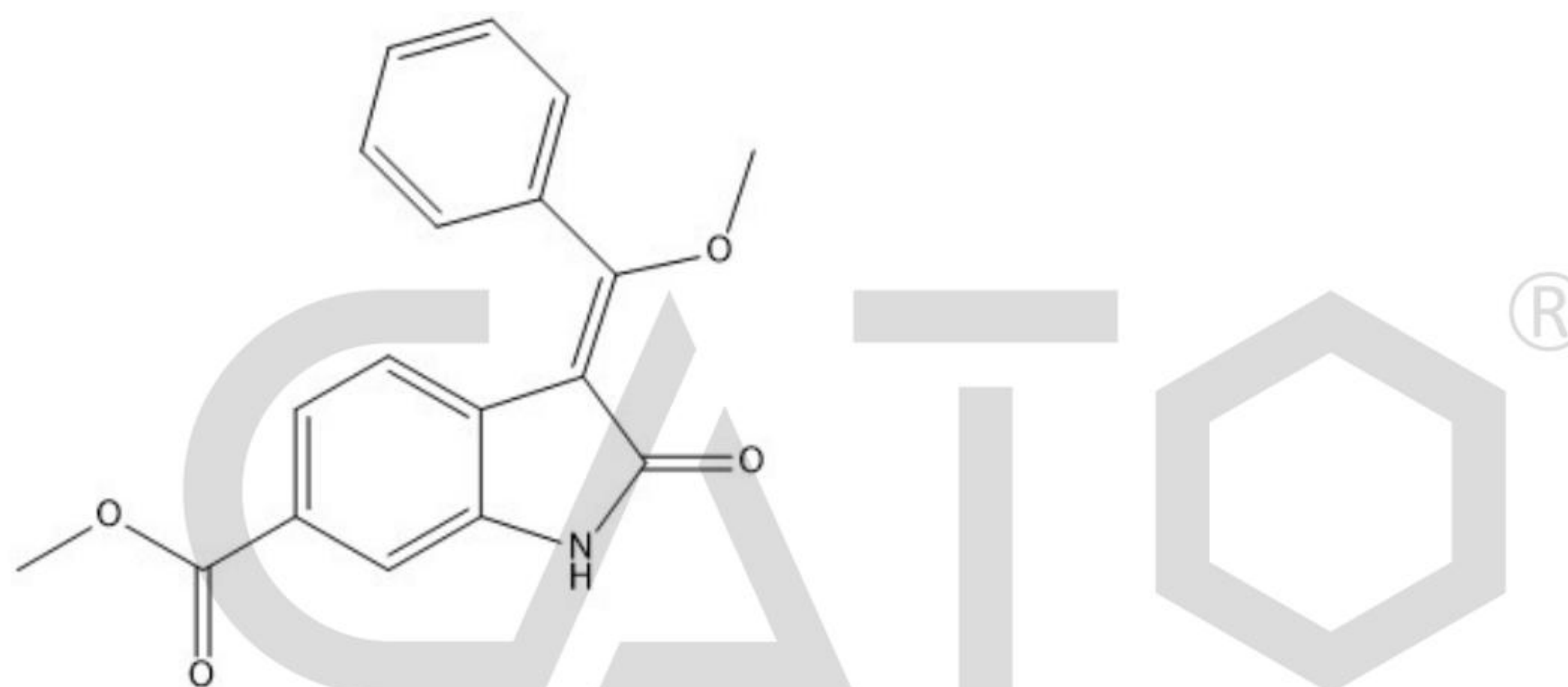


Certificate of Analysis

Reference Material & Standard

Product Name:	Nintedanib Impurity 55	Catalogue Number:	C4X-181455
Synonyms:	Methyl (3Z)-3-[methoxy(phenyl)methylidene]-2-oxo-2,3-dihydro-1H-indole-6-carboxylate	Lot Number:	0702-RH-0041
CAS Number:	1438271-13-6	Expiry Date:	Jul 09, 2030
Molecular Formula:	C ₁₈ H ₁₅ NO ₄	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	309.32	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile and DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.721%
Residue on Ignition	TGA	0.3174%
Loss on Drying	TGA	0.4800%
Assay	qNMR	97.8%
Assay	Mass Balance	97.9%

Comment:

1. The retest date of this product is Jul 09, 2029.
2. 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: Jul 10, 2026

Date: Jul 10, 2026

Date: Jul 10, 2026



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