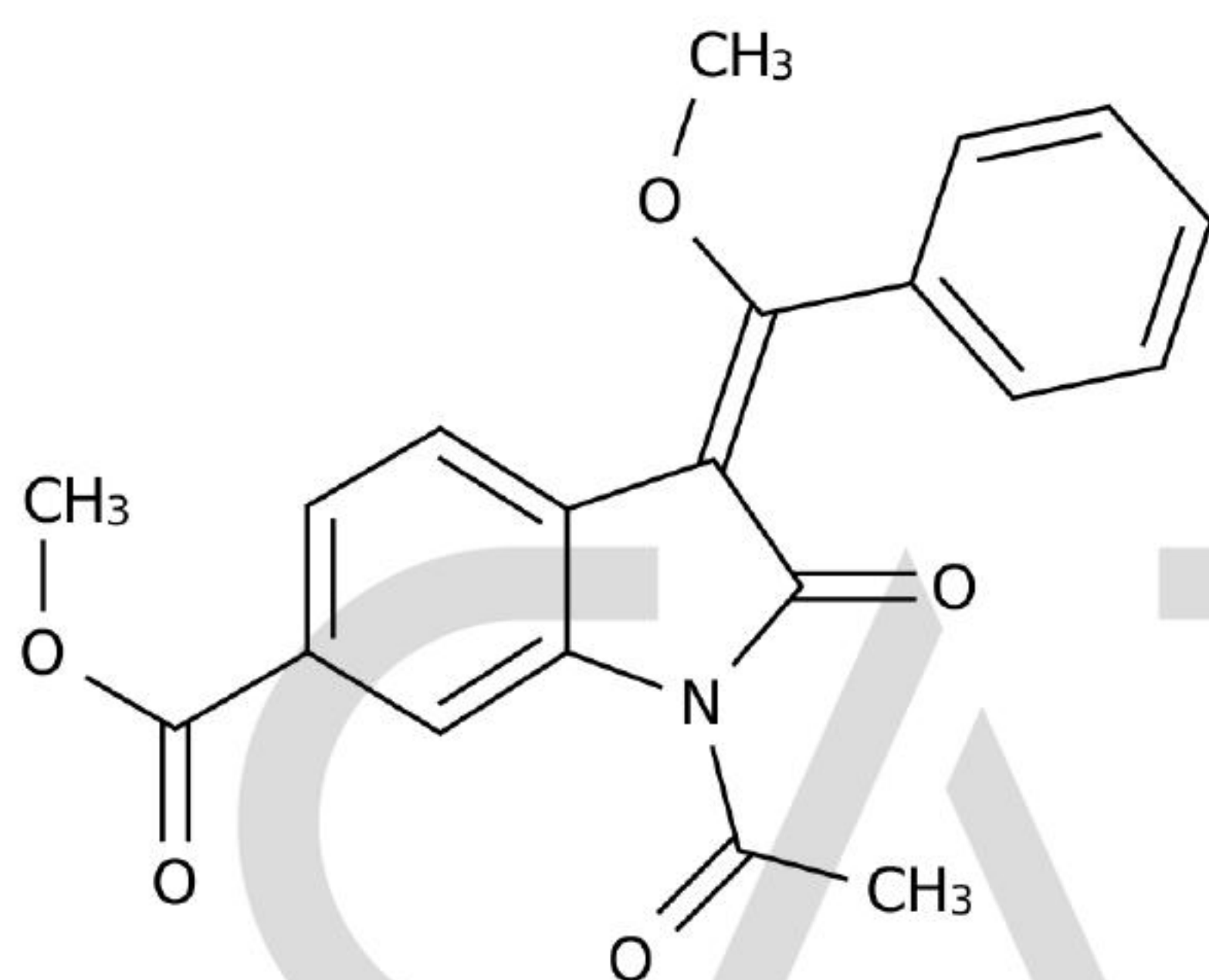


Certificate of Analysis

Reference Material & Standard

Product Name:	Nintedanib Impurity 49	Catalogue Number:	C4X-181449
Synonyms:	N/A	Lot Number:	0828-RF-0031
CAS Number:	1168152-07-5	Expiry Date:	Aug 29, 2027
Molecular Formula:	C20H17NO5	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	351.35	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.098%
Loss On Drying	TGA	0.0503%
Assay		96.0%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Aug 30, 2024

Date: Aug 30, 2024

Date: Aug 30, 2024

