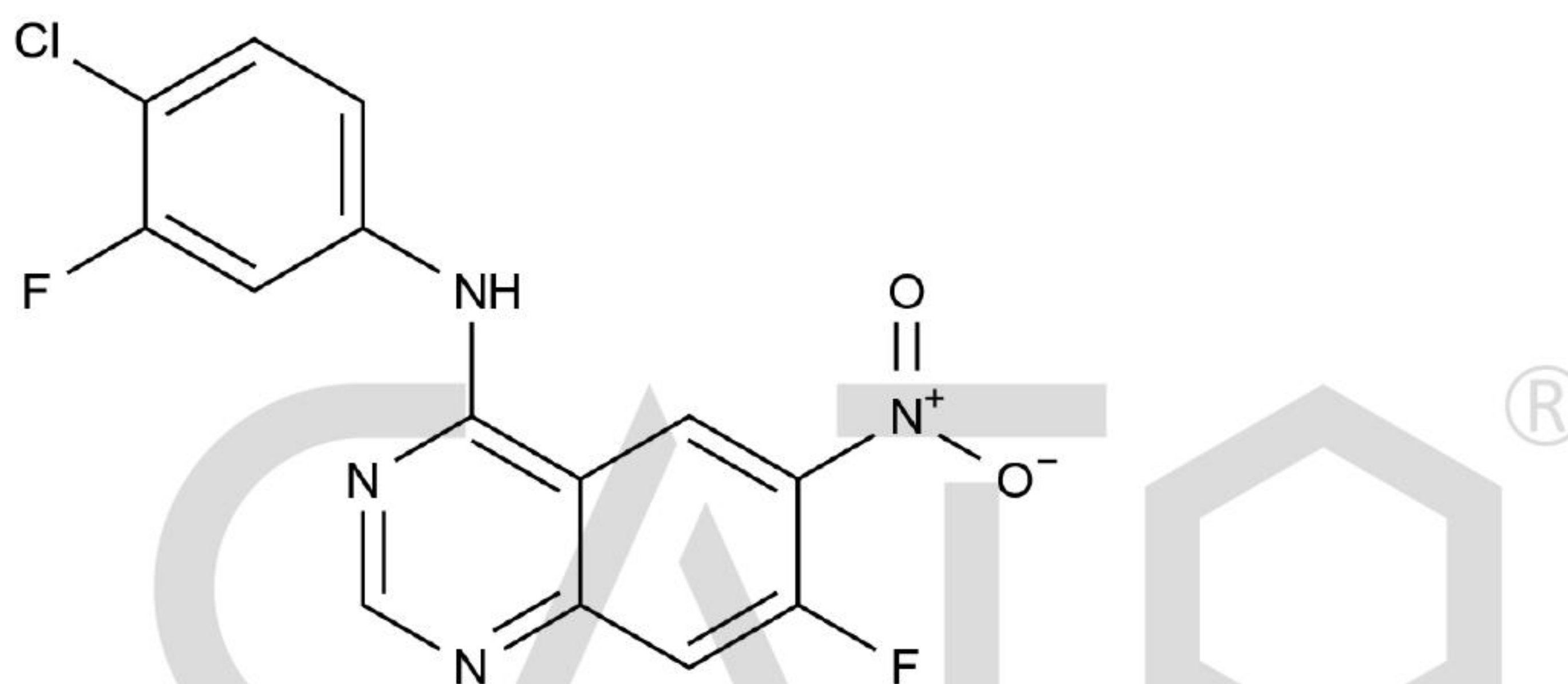


Certificate of Analysis

Reference Material & Standard

Product Name:	Afatinib Impurity 51	Catalogue Number:	C4X-100651
Synonyms:	N/A	Lot Number:	0510-RF-0032
CAS Number:	N/A	Expiry Date:	May 12, 2027
Molecular Formula:	C ₁₄ H ₇ ClF ₂ N ₄ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	336.68	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.283%
Loss On Drying	TGA	0.5933%
Assay		95.7%

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: Jun 25, 2024

Date: Jun 25, 2024

Date: Jun 25, 2024

