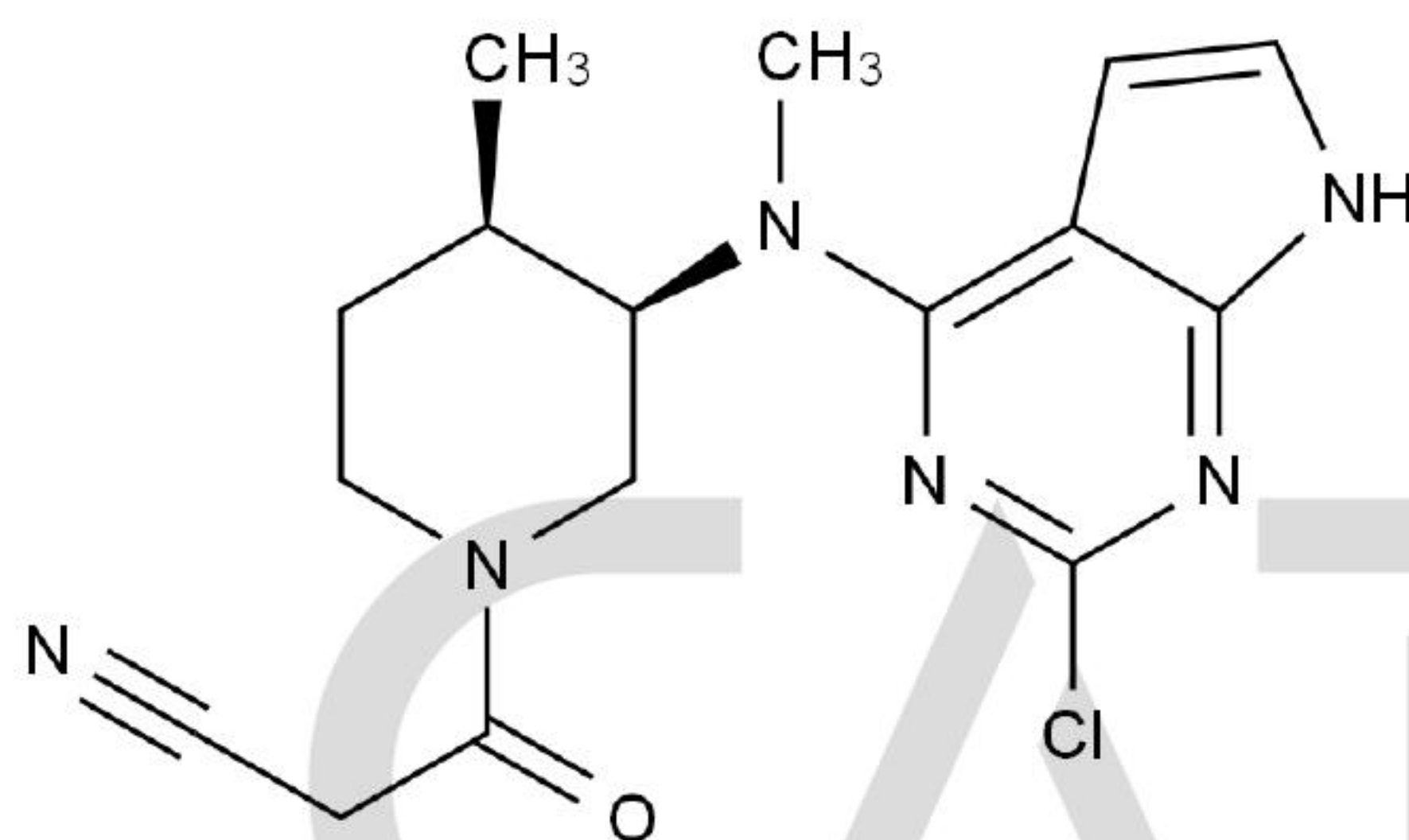


Certificate of Analysis

Reference Material & Standard

Product Name:	Tofacitinib Impurity 7	Catalogue Number:	C4X-10797
Synonyms:	3-[(3R,4R)-3-[(2-Chloro-7H-pyrrolo[2,3-d]pyrimidin-4-yl)(methyl)amino]-4-methyl-1-piperidinyl]-3-oxopropanenitrile	Lot Number:	0525-RH-0088
CAS Number:	1616761-00-2	Expiry Date:	May 31, 2030
Molecular Formula:	C ₁₆ H ₁₉ ClN ₆ O	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	346.81	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	97.781%
Residue on Ignition	TGA	1.1423%
Loss on Drying	TGA	0.2138%
Assay	qNMR	95.8%
Assay	Mass Balance	96.5%

Comment:

- The retest date of this product is May 31, 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: Jun 01, 2026

Date: Jun 01, 2026

Date: Jun 01, 2026



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