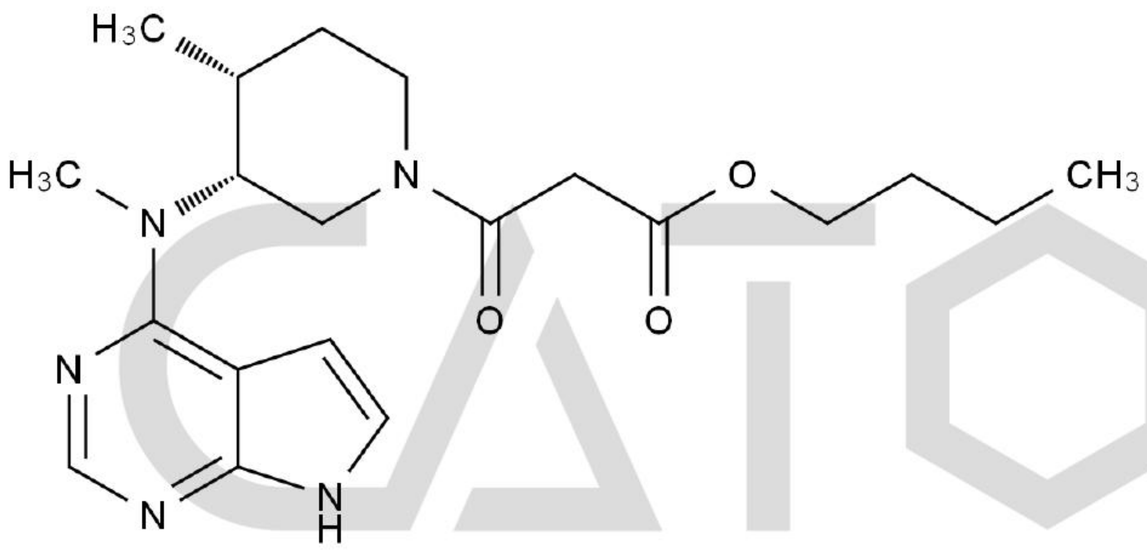
Certificate of Analysis

Reference Material & Standard

Product Name:	Tofacitinib Impurity 50	**Catalogue Number:**	C4X-107950
Synonyms:	N/A	**Lot Number:**	0122-RC-0002
CAS Number:	2227199-31-5	**Expiry Date:**	Oct 07, 2030
Molecular Formula:	$C_{20}H_{29}N_5O_3$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	387.48	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.473%
Loss on Drying	TGA	0.6163%
Assay	Mass Balance	97.9%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Oct 08, 2026

Reviewed by: Koi Date: Oct 09, 2026

Approved by General Manager: David Date: Oct 09, 2026

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