



ISO 9001:2015 CERTIFIED CERTIFICATE OF ANALYSIS

Product Name	Zanubrutinib Impurity-5 (S-isomer)	
Molecular Formula	C ₂₄ H ₂₅ N ₅ O	The chemical structure of Zanubrutinib Impurity-5 (S-isomer) is shown. It features a central pyrazolo[1,5-a]pyrimidine core. At position 3, there is a nitrile group (-C≡N). At position 4, there is a 4-phenoxyphenyl group, consisting of a benzene ring connected at the para position to an oxygen atom, which is further connected to another benzene ring. At position 7, there is a 4-piperidinyl group, consisting of a piperidine ring attached to the 7-position of the core. The stereochemistry at the 7-position is specified as (S).
Molecular Weight	399.5	
Batch Number	XX-XXXX	
Batch Quantity	XXX	
Date of Manufacturing	DD-MM-YYYY	
Date of Analysis	DD-MM-YYYY	
Next Retest Date	DD-MM-YYYY	
Catalogue Number	DCTI-C-2617	
CAS Number	2190506-59-1	
COA Number	PA-XXXX	
IUPAC Name	(S)-2-(4-phenoxyphenyl)-7-(piperidin-4-yl)-4,5,6,7-tetrahydropyrazolo(1,5-a)pyrimidine-3-carbonitrile	
Storage and Handling	Store at 2-8°C	

Sl. No	* Test	Result
	Description	
1.	Identification i) By IR ii) By NMR iii) By MS	--
2.	Chromatographic Purity (% by HPLC)	--

Remarks: *Test or tests as mentioned above may vary as per the product nature or customer's requirement

Function	Compiled by	Reviewed by	Reviewed by	Approved by
Name	xxx	xxx	xxx	xxx
Department	Pharma Standards QC	Pharma Standards QC	Quality Assurance	Quality Assurance
Sign and Date				

Attachments	IR, NMR, MS spectra, HPLC Chromatogram.
Date of Shipment	DD-MMM-YYYY

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