



## CERTIFICATE OF ANALYSIS

Date: 14-02-2026

Product Name	Venetoclax Impurity 13		
Chemical Name	2-(1H-Pyrrrol-2,3-b-pyridin-5-yloxy)-4-(5-(4-(4'-chloro-5,5-dimethyl-3,4,5,6-tetrahydro-[1,1'-biphenyl]-2-yl)methyl)piperazin-1-yl)-2-(((3-nitro-4-((tetrahydro-2H-pyran-4-yl)methyl)amino)phenyl)sulfonyl)carbamoylphenoxyl-1H-pyrrolo[2,3-b]pyridin-1-yl-N-((3-nitro-4-((tetrahydro-2H-pyran-4-yl)methyl)amino)phenyl)sulfonyl)benzamide		
Structure	<p>The chemical structure of Venetoclax Impurity 13 is a complex molecule. It features a central piperazine ring substituted with a 2-(3,4,5,6-tetrahydro-1,1'-biphenyl-2-yl)methyl group. This is connected via a methylene bridge to a 1H-pyrrrole ring, which is further substituted with a 2,3-b-pyridine ring. The 2,3-b-pyridine ring has a 5-yloxy group attached. The molecule also contains a 3-nitro-4-((tetrahydro-2H-pyran-4-yl)methyl)amino group, a phenylsulfonyl group, and a carbamoylphenoxyl group. The entire structure is substituted with a 1H-pyrrolo[2,3-b]pyridin-1-yl group.</p>		
Batch No.	-	CAS No.	2573767-94-7
Analysis Date	-	Retest Date	5
Mol. Formula	C <sub>39</sub> H <sub>41</sub> ClN <sub>8</sub> O <sub>10</sub> S <sub>2</sub>	Molecular Wt.	1418
Long term Storage Condition	Store at 2-8 °C in well closed container		
Handling and Transit Condition	25-30 °C in well closed container		

Test	Result
Appearance	-
Solubility	-
1H-NMR	Conforms to structure
MASS	Conforms to structure
Chromatographic Purity	>90%

**Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.**

	Prepared By	Checked By	Approved By
Signature			
Date			

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