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## CERTIFICATE OF ANALYSIS

Analysis Date:

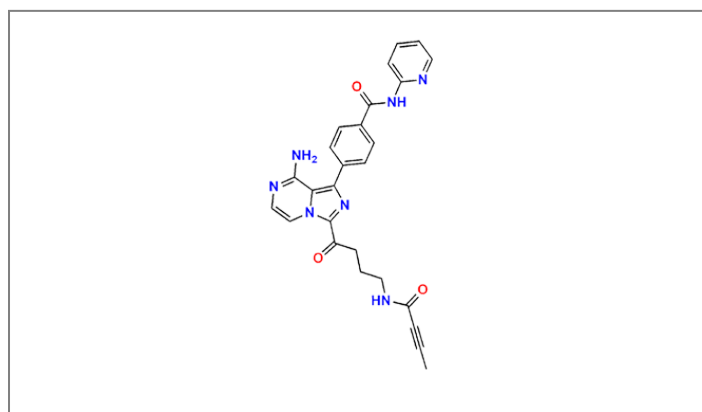
Re-test Date:

**Product Name: Acalabrutinib Impurity 1**

### Identification:

Chemical Name: 4-[8-Amino-3-[1-oxo-4-[(1-oxo-2-butyn-1-yl)amino]butyl]imidazo[1,5-a]pyrazin-1-yl]-N-2-pyridinylbenzamide

Synonyms : NA  
CAS Number : 2230757-47-6  
CAT Number : CP-A165001  
Molecular Formula : C<sub>26</sub>H<sub>23</sub>N<sub>7</sub>O<sub>3</sub>  
Molecular Weight : 481.52



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.