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## CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Upadacitinib Impurity 52**

### Identification:

Chemical Name: 5-tosyl-5H-pyrrolo[2,3-b]pyrazine

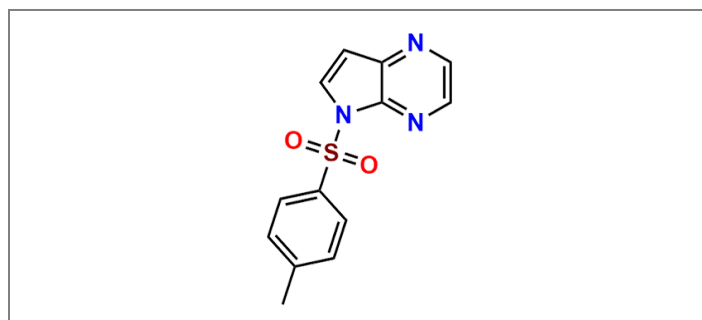
Synonyms : NA

CAS Number : 1944483-53-7

CAT Number : CP-U22054

Molecular Formula : C<sub>13</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight : 273.31



### 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.