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## CERTIFICATE OF ANALYSIS

Analysis Date:

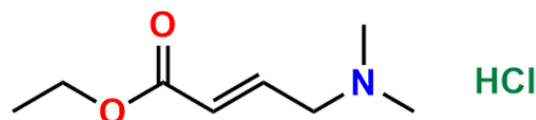
Re-test Date:

**Product Name: Afatinib Impurity 24**

### Identification:

Chemical Name: Ethyl (E)-4-(dimethylamino)but-2-enoate hydrochloride

Synonyms : NA  
CAS Number : 1255078-56-8  
CAT Number : CP-A50038  
Molecular Formula : C<sub>8</sub>H<sub>15</sub>NO<sub>2</sub> : HCl  
Molecular Weight : 157.2 : 36.46



### 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.