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## CERTIFICATE OF ANALYSIS

Analysis Date: Feb 2025

Re-test Date: Jan 2028

**Product Name: Clopidogrel EP Impurity F**

### Identification:

Chemical Name: methyl (S)-2-(2-chlorophenyl)-2-((2-(thiophen-2-yl)ethyl)amino)acetate, hydrochloride (1:1)

Synonyms : Clopidogrel Thienylethyl  
Impurity ; Clopidogrel Open Ring  
Hydrochloride (USP)

CAS Number : 141109-19-5

CAT Number : CP-C2084

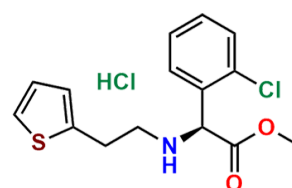
Molecular Formula : C<sub>15</sub>H<sub>16</sub>ClNO<sub>2</sub>S : HCl

Molecular Weight : 309.81 : 36.46

Batch Number : CP-CLO-F-0225

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.83%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to Structure
7)	IR	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.