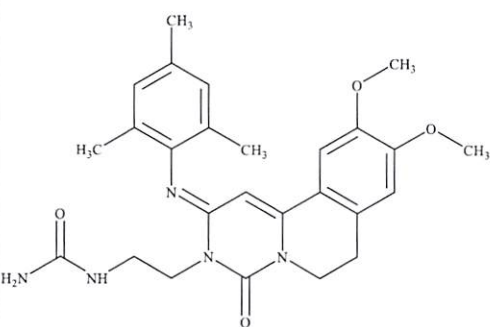


Certificate of Analysis



Certificate No.: 20250807004

Date: August 7, 2025

Retest date: July 18, 2028

Compound Name:	Ensifentrine	
Synonyms:	<i>(E)</i> -1-(2-(2-(mesitylimino)-9,10-dimethoxy-4-oxo-6,7-dihydro-2 <i>H</i> -pyrimido[6,1- <i>a</i>]isoquinolin-3(4 <i>H</i>)-yl)ethyl)urea	
TLC Catalogue Number:	E-225001	
CAS Number:	1884461-72-6	
Alternate CAS Number:	N/A	
Molecular Weight:	477.57	
Molecular Formula:	C ₂₆ H ₃₁ N ₅ O ₄	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	6975-022A2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO, DMF	

Test Description	Specifications	Results
Visual Description	Yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.9%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.1%
Residue (TGA at 900 °C)	N/A	0.0%
Residual Solvents (NMR)	0.1% methanol	
Assay (%)	Not less than 90.0%	99.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		08/07/2025
Approved by:	Quality Assurance		08/07/2025

Attachments: Peak Attribution Table, HPLC, IR, MS, NMR and TGA spectra.