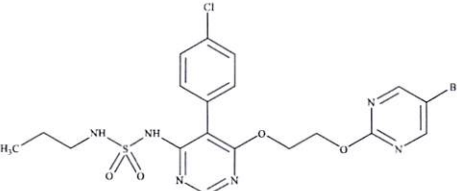


Certificate of Analysis


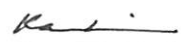
Certificate No.: 20260609005

Date: June 9, 2026

Retest date: June 4, 2029

Compound Name:	Macitentan Impurity 23	
Synonyms:	<i>N</i> -[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-5-(4-chlorophenyl)-4-pyrimidinyl]- <i>N'</i> -propyl-sulfamide	
TLC Catalogue Number:	M-128028	
CAS Number:	441798-36-3	
Alternate CAS Number:	N/A	
Molecular Weight:	543.82	
Molecular Formula:	C ₁₉ H ₂₀ BrClN ₆ O ₄ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7387-087A3	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO	

Test Description	Specifications	Results
Visual Description	Off-white 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%	99.6%
Impurity (HPLC)	RT 4.70, 0.17%	
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	0.2% <i>n</i> -hexane	
Assay (%)	Not less than 90.0%	99.2%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/09/2026
Approved by:	Quality Assurance		06/09/2026

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