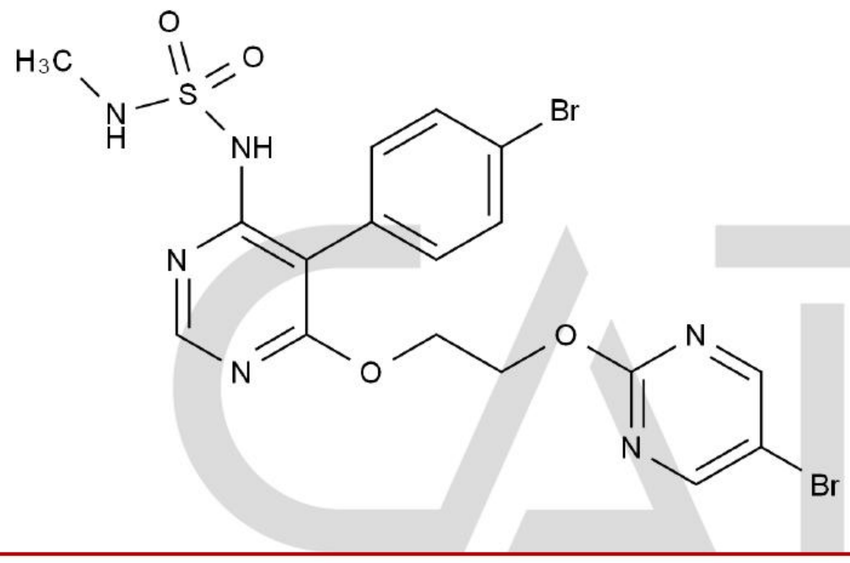
Certificate of Analysis

Reference Material & Standard

Product Name:	Macitentan Impurity 1	**Catalogue Number:**	C4X-11751
Synonyms:	N-[5-(4-Bromophenyl)-6-{2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy}-4-pyrimidinyl]-N′-methylsulfuric diamide	**Lot Number:**	0901-RH-0034
CAS Number:	441798-25-0	**Expiry Date:**	Sep 21, 2030
Molecular Formula:	$C_{17}H_{16}Br_2N_6O_4S$	**Storage:**	2°C ~ 8°C Sealed
Molecular Weight:	560.22	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile and DMSO	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.771%
Residue on Ignition	TGA	0.6453%
Loss on Drying	TGA	1.5655%
Assay	qNMR	96.5%
Assay	Mass Balance	96.6%

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Comment:

1. The retest date of this product is Sep 21, 2029.
2. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Residue on Ignition-Loss on Drying) * Purity HPLC (%) /100%*
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Koi Date: Sep 22, 2026

Reviewed by: Alice Date: Sep 22, 2026

Approved by General Manager: David Date: Sep 22, 2026

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