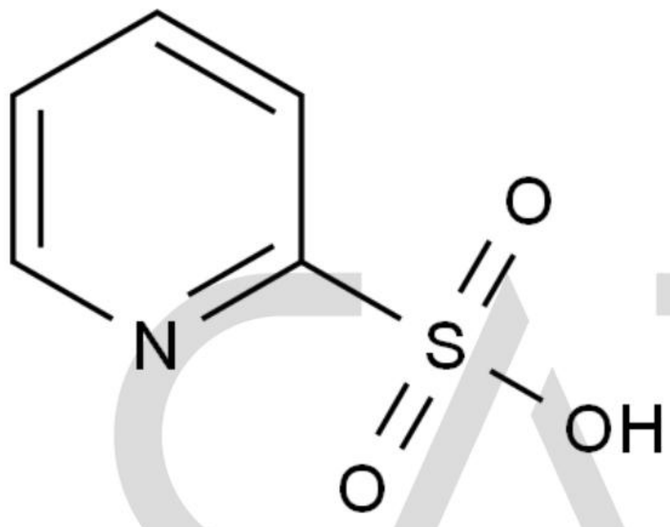
Certificate of Analysis

Reference Material & Standard

Product Name:	Vonoprazan Impurity 153	**Catalogue Number:**	C4X-1020153
Synonyms:	N/A	**Lot Number:**	0921-RH-0109
CAS Number:	15103-48-7	**Expiry Date:**	Sep 23, 2030
Molecular Formula:	$C_5H_5NO_3S$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	159.16	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Crystalline Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	0.6395%
Assay		99.4%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content) * Purity HPLC (%) /100%*
Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Sep 24, 2026

Reviewed by: Koi Date: Sep 24, 2026

Approved by General Manager: David Date: Sep 24, 2026

CATO Research Chemicals Inc.