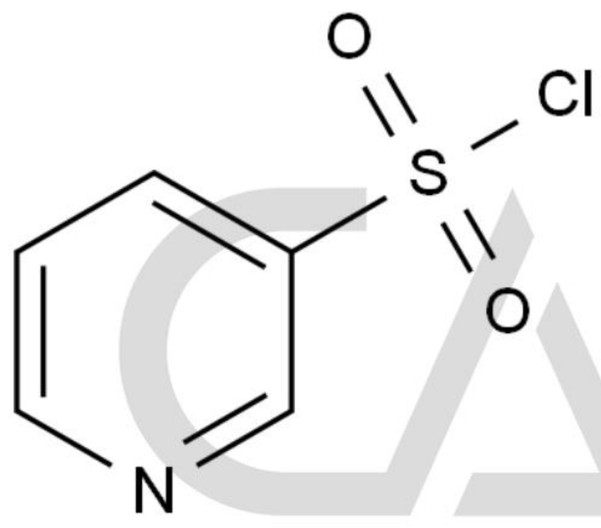
Certificate of Analysis

Reference Material & Standard

Product Name:	Vonoprazan Impurity 16	**Catalogue Number:**	C4X-102016
Synonyms:	N/A	**Lot Number:**	0805-RH-0068
CAS Number:	16133-25-8	**Expiry Date:**	Aug 09, 2030
Molecular Formula:	$C_5H_4ClNO_2S$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	177.61	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.000%
Water Content	Karl Fischer	0.1023%
Assay		99.9%

Comment:

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

Signature:

Prepared by: Alice Date: Aug 10, 2026

Reviewed by: Koi Date: Aug 10, 2026

Approved by General Manager: David Date: Aug 10, 2026

CATO Research Chemicals Inc.