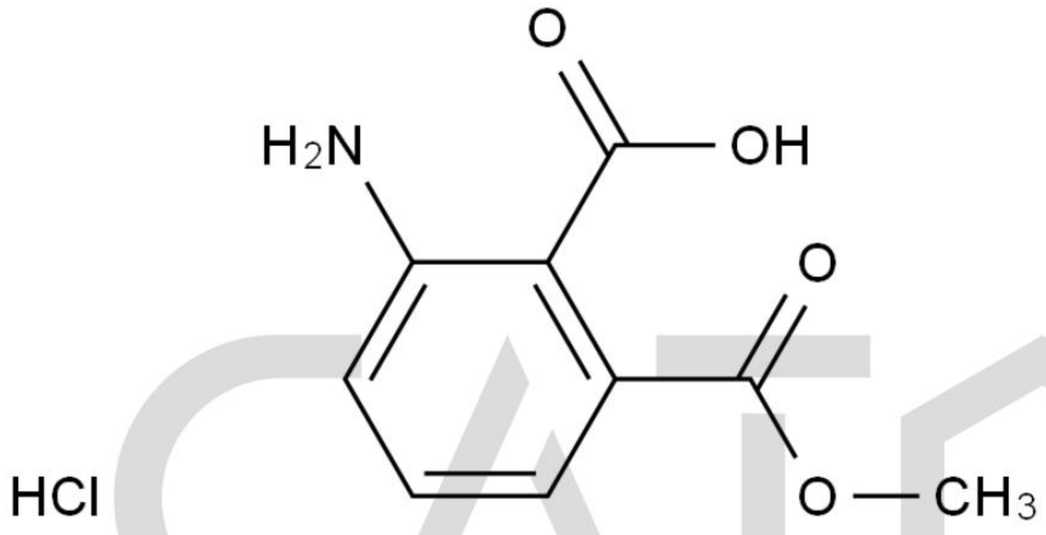
Certificate of Analysis

Reference Material & Standard

Product Name:	Apremilast impurity 91 HCl	**Catalogue Number:**	C4X-100991
Synonyms:	N/A	**Lot Number:**	1106-RF-0036
CAS Number:	311310-97-1	**Expiry Date:**	Nov 11, 2027
Molecular Formula:	C9H9NO4 HCl	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	195.17 36.46		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.1%
Assay	qNMR	95.9%

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Comment:

Assay was determined by quantitative 1H-NMR.

Signature:

Prepared by: Alice Date: Nov 12, 2024

Reviewed by: Koi Date: Nov 12, 2024

Approved by General Manager: David Date: Nov 12, 2024

CATO Research Chemicals Inc.