

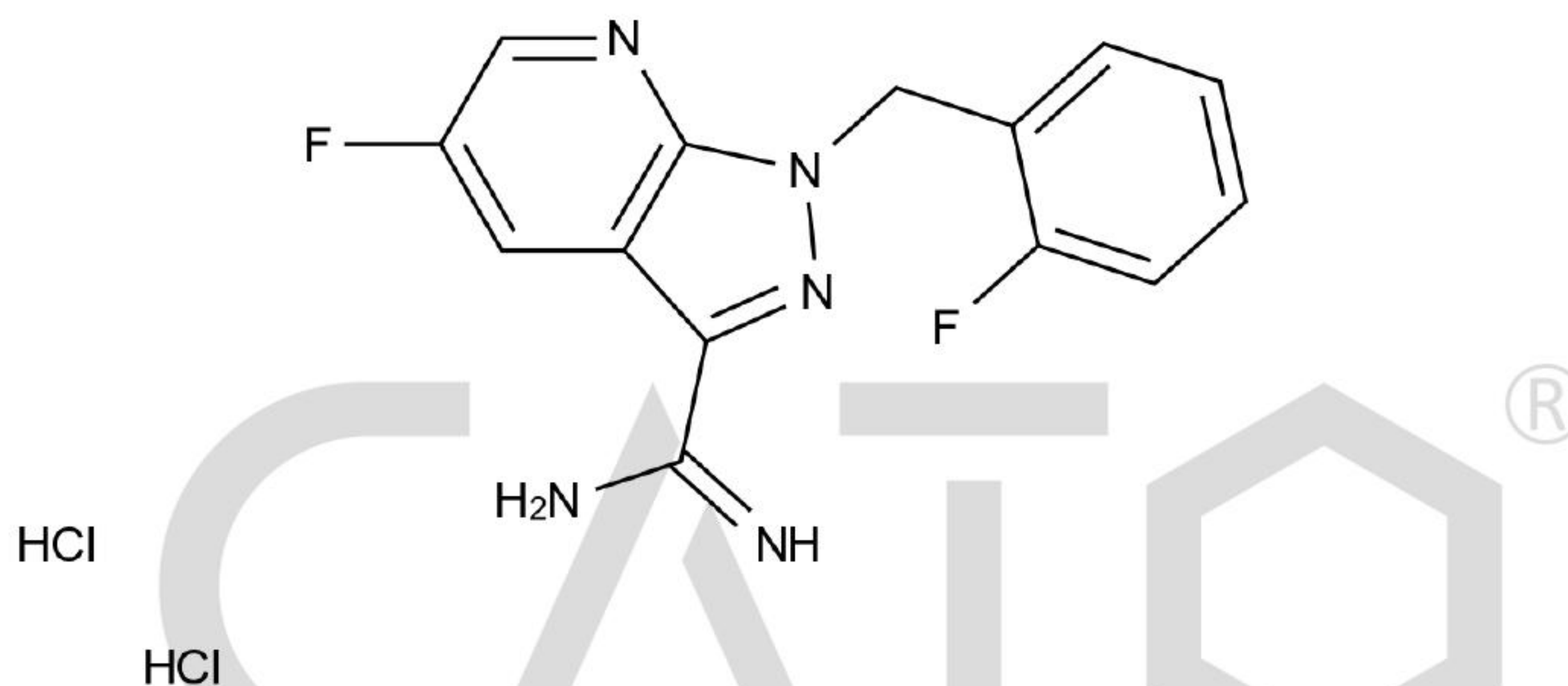
Certificate of Analysis

Reference Material & Standard

Product Name:	Vericiguat Impurity N dihydrochloride	Catalogue Number:	C1293294
Synonyms:	N/A	Lot Number:	1028-RF-0080
CAS Number:	1426309-48-9	Expiry Date:	Nov 05, 2027
Molecular Formula:	C ₁₄ H ₁₁ F ₂ N ₅ 2*HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	287.27 2*36.46	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.882%
Loss On Drying	TGA	2.0769%
Assay		96.8%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

David

Date: Nov 06, 2024

Date: Nov 07, 2024

Date: Nov 07, 2024

