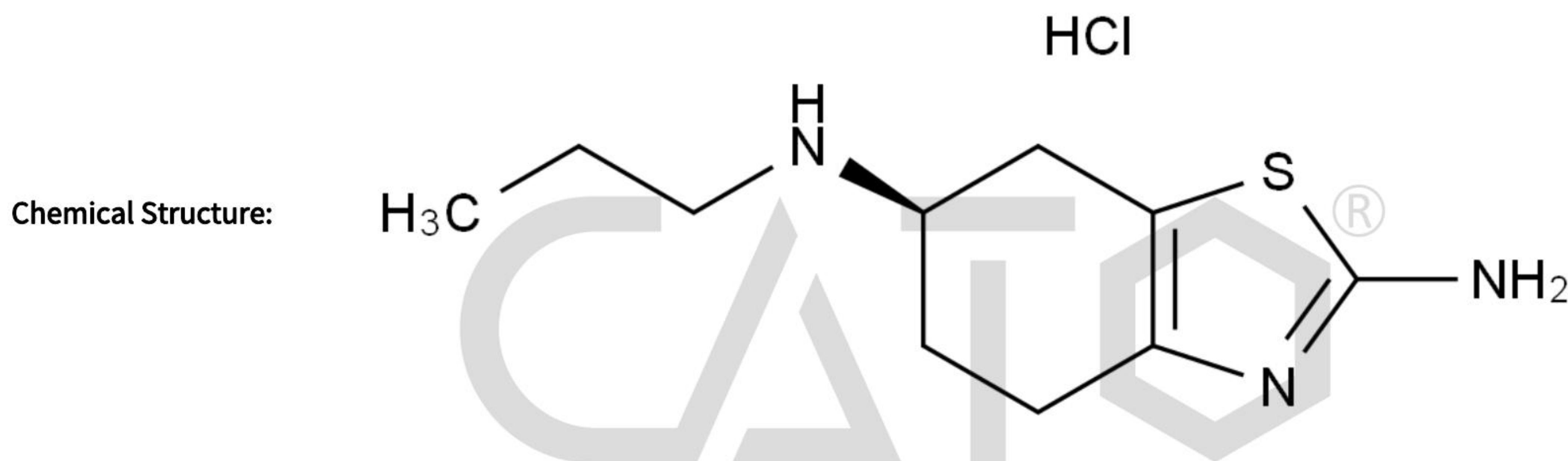


Certificate of Analysis

Reference Material & Standard

Product Name:	Pramipexole EP Impurity D HCl	Catalogue Number:	C4X-110762
Synonyms:	N/A	Lot Number:	0912-RG-0070
CAS Number:	1332889-14-1	Expiry Date:	Aug 01, 2028
Molecular Formula:	C ₁₀ H ₁₇ N ₃ S HCl	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	211.33 36.46		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.756 %
Water Content	Karl Fischer	0.47%
Residual Solvents	NMR	Not detected in NMR
Assay		98.3%

Comment:

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

Assay (%) = (100%-Water Content-Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Sep 15, 2025

Date: Sep 15, 2025

Date: Sep 15, 2025



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

