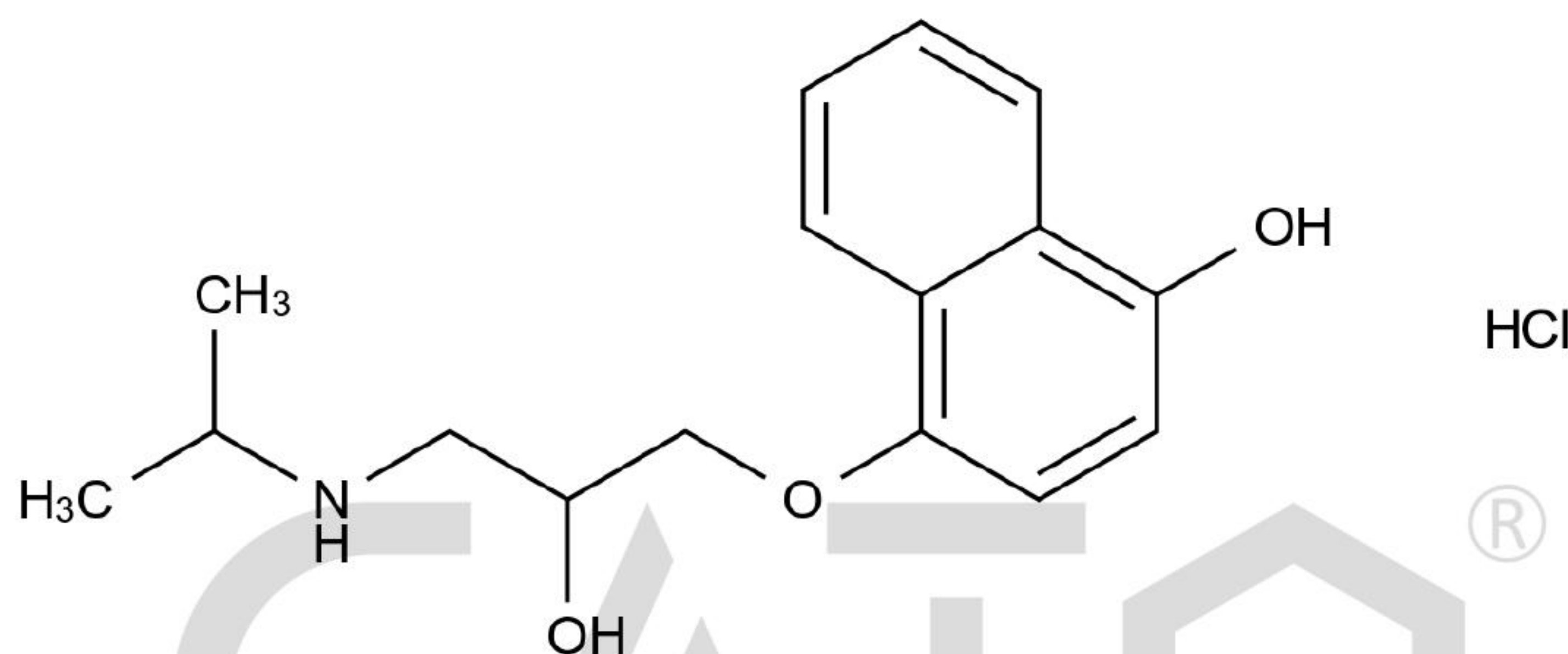


Certificate of Analysis

Reference Material

Product Name:	4-Hydroxy Propranolol HCl	Catalogue Number:	C4X-151918
Chemical Name:	N/A	Lot Number:	0907-RE-0002
CAS Number:	14133-90-5	Expiry Date:	May 19, 2025
Molecular Formula:	C16H21NO3 HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	275.34 36.46		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.8322%
Water Content	Karl Fischer	0.20%
Residual Solvents	NMR	1.0% isopropanol
Assay		98.6%

Comment:

The calculation of the 100% 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:

Hinlam

Aporoved by General manager:

David

Date: May 20, 2022

Date: Sep 07, 2023

Date: Sep 07, 2023

