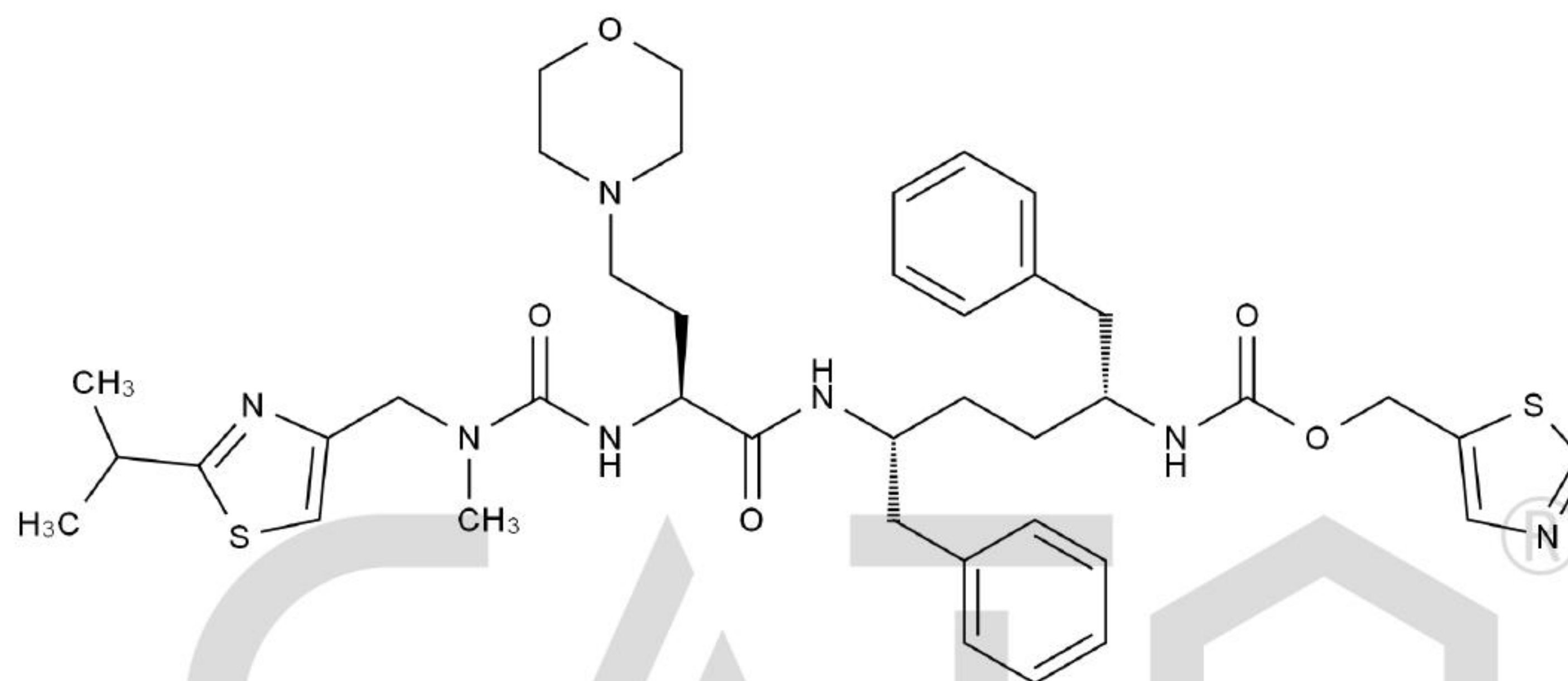


Certificate of Analysis

Reference Material

Product Name:	Cobicistat	Catalogue Number:	C4X-1816
Chemical Name:	N/A	Lot Number:	0109-RE-0026
CAS Number:	1004316-88-4	Expiry Date:	Mar 15, 2024
Molecular Formula:	C ₄₀ H ₅₃ N ₇ O ₅ S ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	776.02		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.6067%
Water Content	Karl Fischer	1.8%
Residual Solvents	NMR	0.4% acetonitrile
Optical Rotation		[α] _D ^{25.0} (c=0.53, CH ₃ OH): -7.5°
Assay		97.4%

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:

Nacy

Reviewed by:

Debia

Aporoved by General manager:

David

Date: Mar 16, 2021

Date: Jan 12, 2023

Date: Jan 12, 2023

Tel: +86-20-81960175

Fax: +86-20-81717260

Email: supports@cato-chem.com

Web: www.cato-chem.com

Add: Room 101, Building B, No.179, Guangpu East Road, Huangpu District, Guangzhou (Location: Room 301, Room 401, Room 501)

