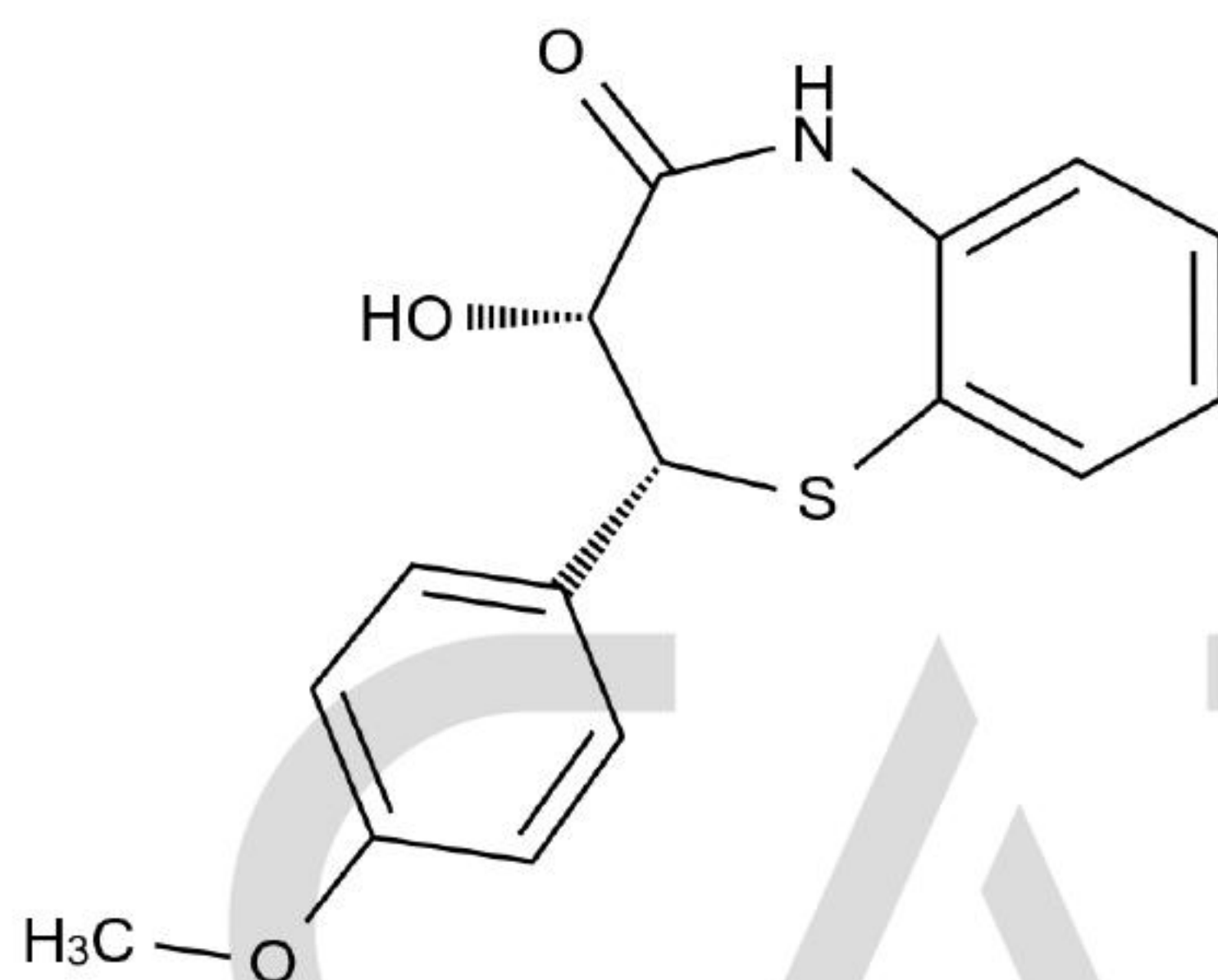


Certificate of Analysis

Reference Material & Standard

Product Name:	Diltiazem Impurity 21	Catalogue Number:	C4X-136821
Synonyms:	N/A	Lot Number:	0906-RF-0050
CAS Number:	42399-51-9	Expiry Date:	Sep 08, 2027
Molecular Formula:	C ₁₆ H ₁₅ NO ₃ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	301.36		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	Chiral Purity	99.9%
Purity	HPLC	98.9%
Assay	qNMR	96.1%
Assay		96.0%

Comment:

Assay was determined by quantitative ¹H-NMR.
Assay=qNMR * Chiral Purity

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 12, 2024

Date: Sep 12, 2024

Date: Sep 12, 2024

