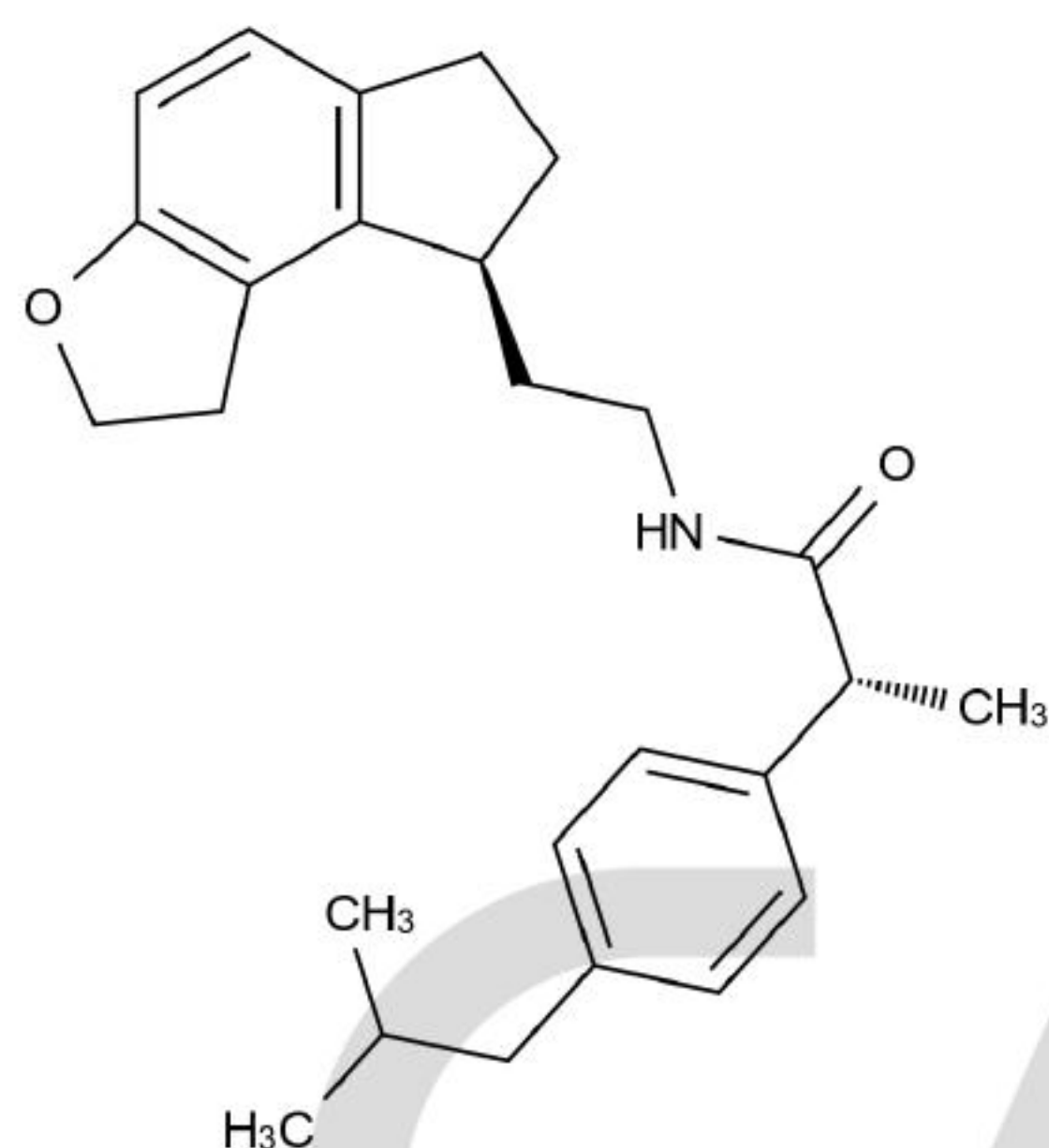


Certificate of Analysis

Reference Material

Product Name:	Ramelteon Impurity 8	Catalogue Number:	C4X-26228
Chemical Name:	N/A	Lot Number:	0320-RE-0035
CAS Number:	N/A	Expiry Date:	Mar 26, 2026
Molecular Formula:	C ₂₆ H ₃₃ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	391.55		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Oil
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.850%
Loss On Drying	TGA	0.1985%
Assay		98.7%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$

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

Signature:

Prepared by:

Hin lam

Reviewed by:

Nacy

Aporoved by General manager:

David

Date: Mar 27, 2023

Date: Mar 27, 2023

Date: Mar 27, 2023

