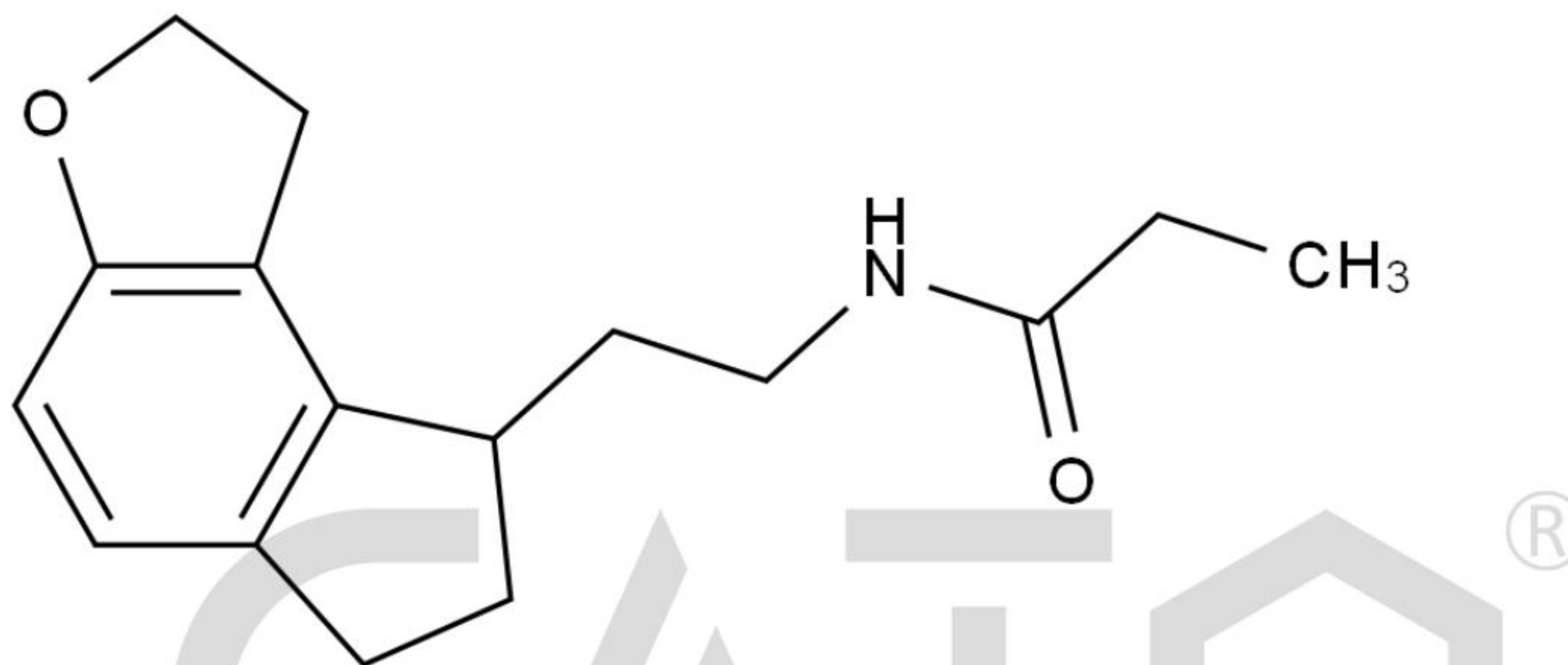


Certificate of Analysis

Reference Material

Product Name:	Ramelteon Impurity N33	Catalogue Number:	CP124857
Chemical Name:	N/A	Lot Number:	0303-RE-0029
CAS Number:	196597-17-8	Expiry Date:	Feb 24, 2026
Molecular Formula:	C ₁₆ H ₂₁ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	259.34		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.509%
Water Content	Karl Fischer	0.45%
Assay		97.1%

Comment:

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

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

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nacy

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Feb 25, 2023

Date: Mar 09, 2023

Date: Mar 09, 2023

