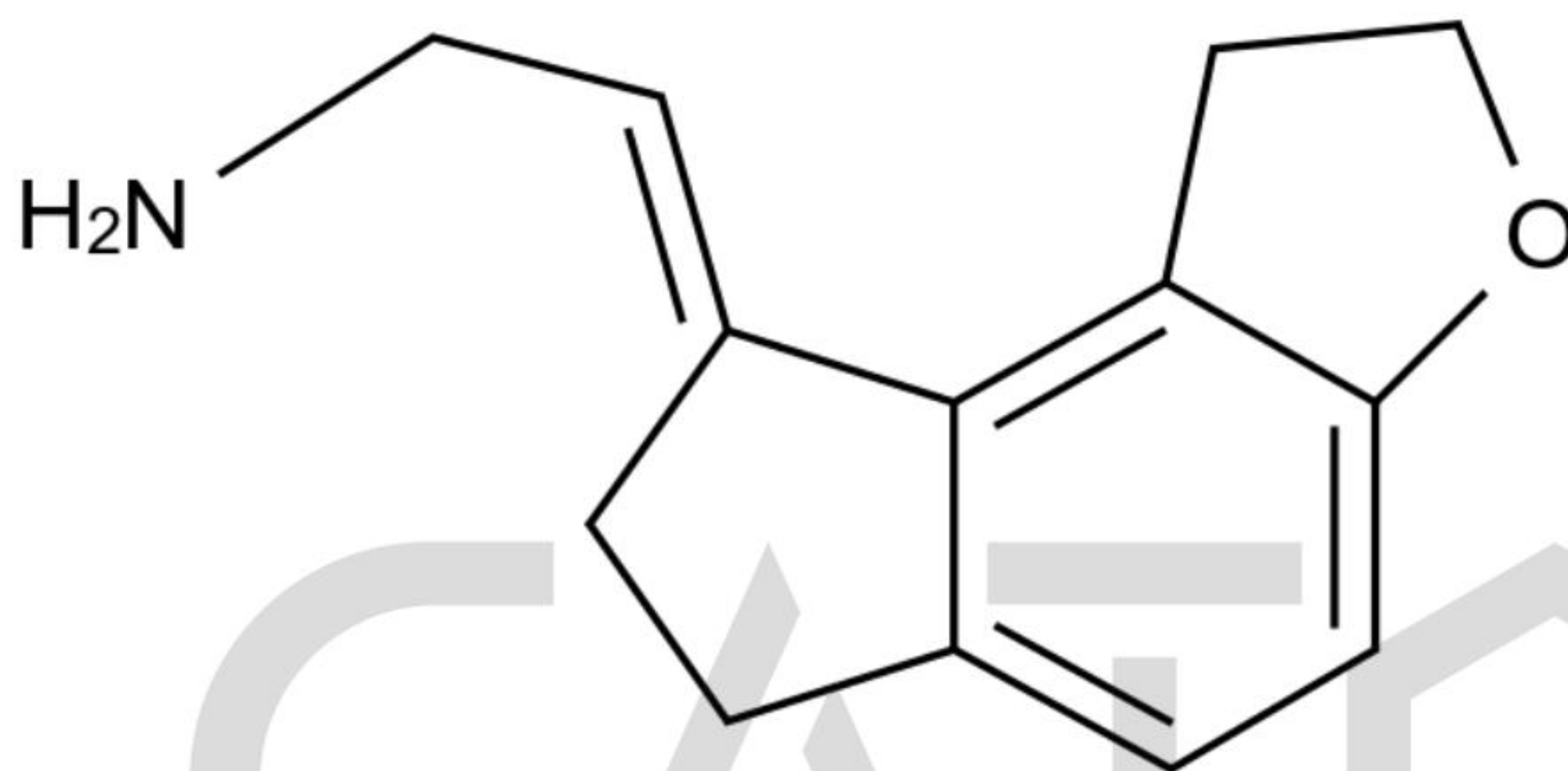


Certificate of Analysis

Reference Material

Product Name:	(E)-Ramelteon Impurity 11	Catalogue Number:	C4X-262211
Chemical Name:	N/A	Lot Number:	0621-RE-0008
CAS Number:	196597-61-2	Expiry Date:	May 30, 2025
Molecular Formula:	C ₁₃ H ₁₅ NO	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	201.26		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Brown Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	UPLC	98.58%
Loss On Drying	TGA	2.5260%
Assay		96.1%

Comment:

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

Assay (%) = (100%-Loss On Drying) * Purity UPLC (%) /100%

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

Signature:

Prepared by:

Nacy

Reviewed by:

Hinlam

Aporoved by General manager:

David

Date: May 31, 2023

Date: Jun 27, 2023

Date: Jun 27, 2023

