

Certificate of Analysis

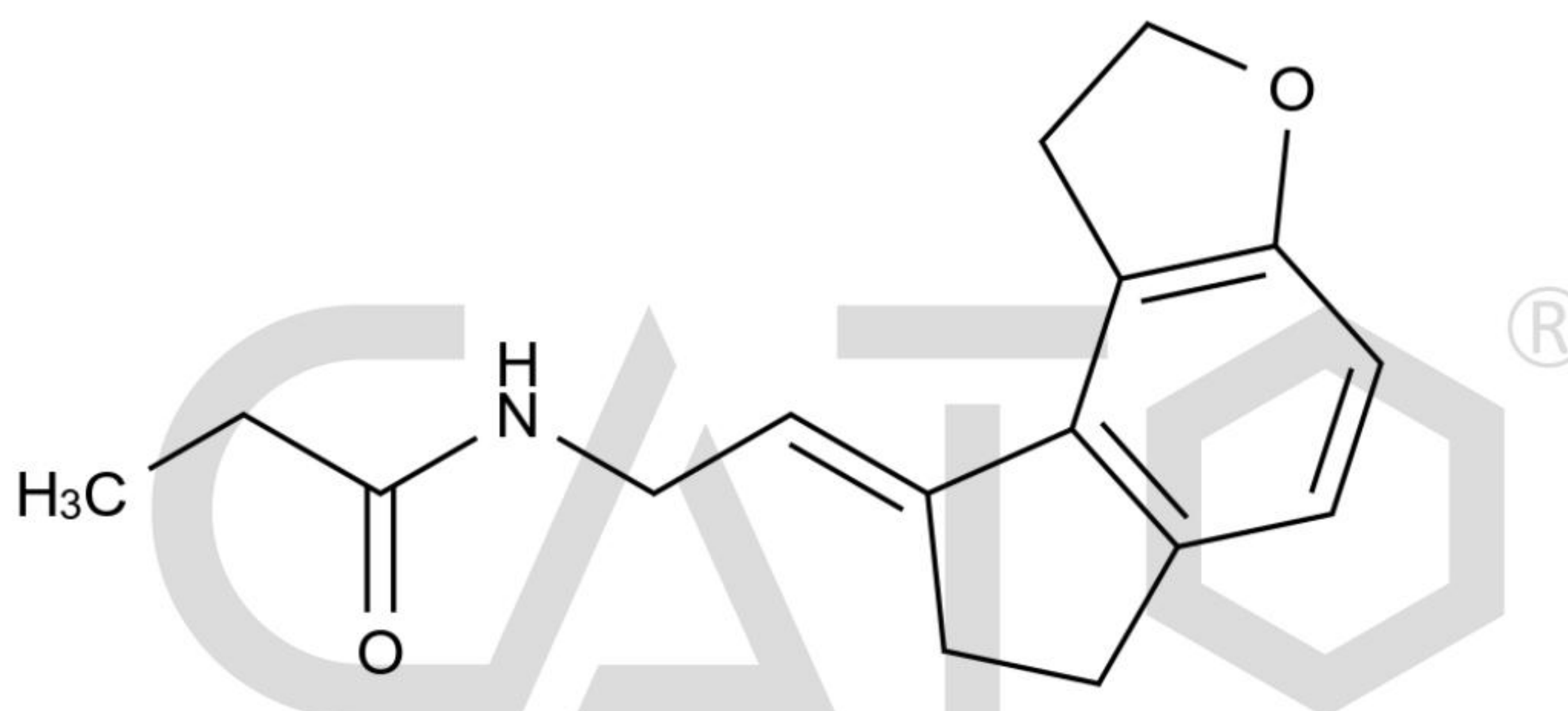
Reference Material & Standard

Product Name:	Ramelteon Impurity N13	Catalogue Number:	CP113935
Synonyms:	N/A	Lot Number:	1009-RH-0023
CAS Number:	882434-87-9	Expiry Date:	Oct 08, 2030
Molecular Formula:	C ₁₆ H ₁₉ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	257.33	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Brown Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.356%
Loss on Drying	TGA	0.0571%
Assay	Mass Balance	98.3%

Comment:

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

Assay (%) = (100% - Loss on Drying) * Purity HPLC (%) / 100%

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

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Oct 09, 2026

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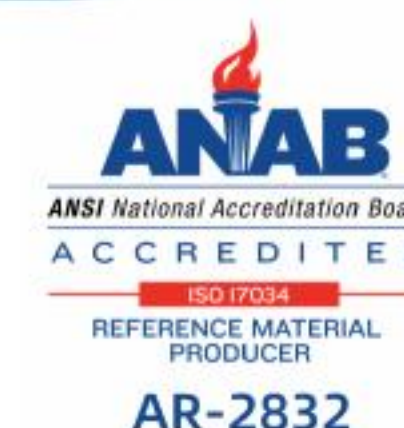
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