

Certificate of Analysis

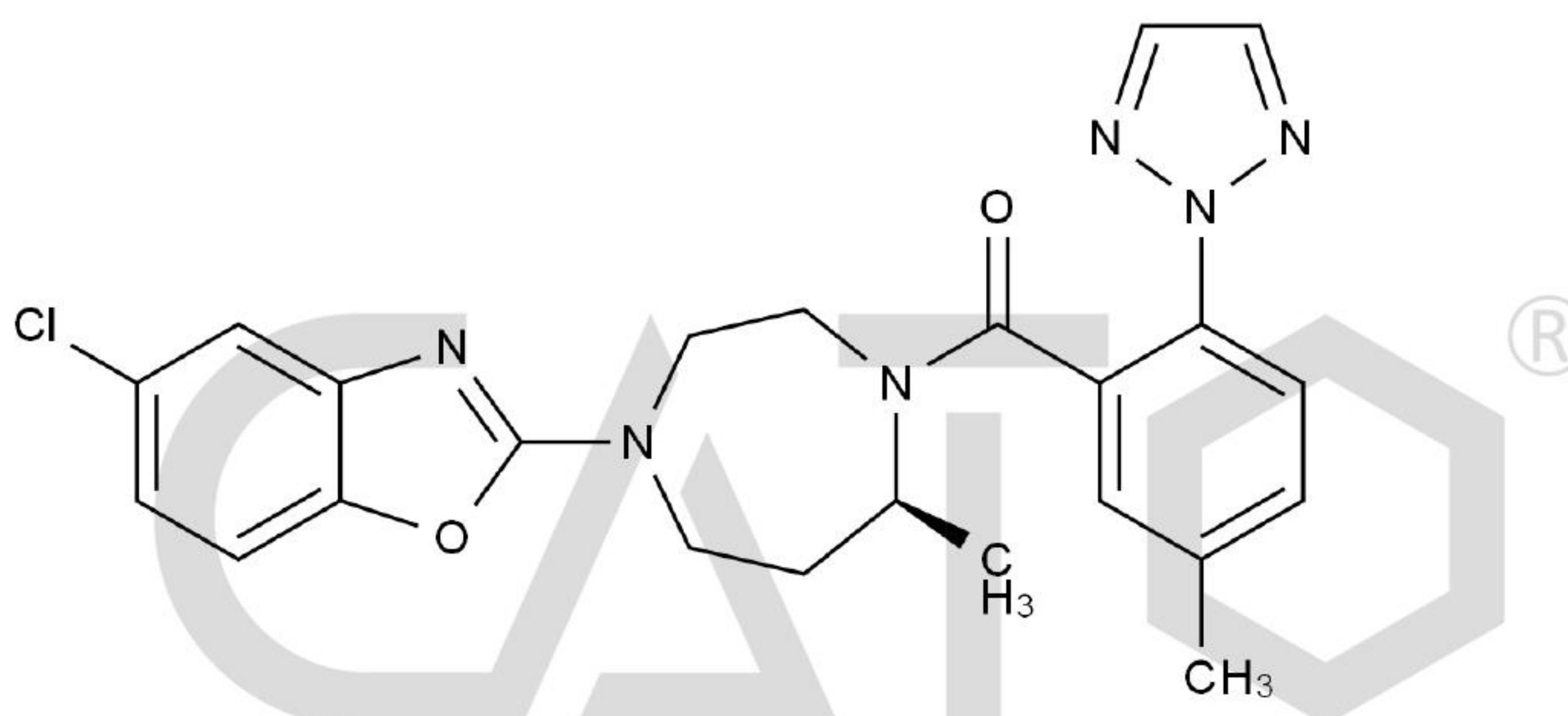
Reference Material & Standard

Product Name:	Suvorexant Impurity 1	Catalogue Number:	C4X-18121
Synonyms:	N/A	Lot Number:	0825-RG-0074
CAS Number:	1030377-80-0	Expiry Date:	Aug 26, 2029
Molecular Formula:	C ₂₃ H ₂₃ ClN ₆ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	450.92	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chiral Purity	HPLC	88.507%
Purity	HPLC	98.701%
Loss On Drying	TGA	0.869%
Assay		97.8%
Assay(Chiral Purity)		86.6%

Comment:

1. Assay(Chiral Purity)=Assay * Chiral Purity
2. The calculation of the mass balance 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:

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Date: Nov 20, 2025

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