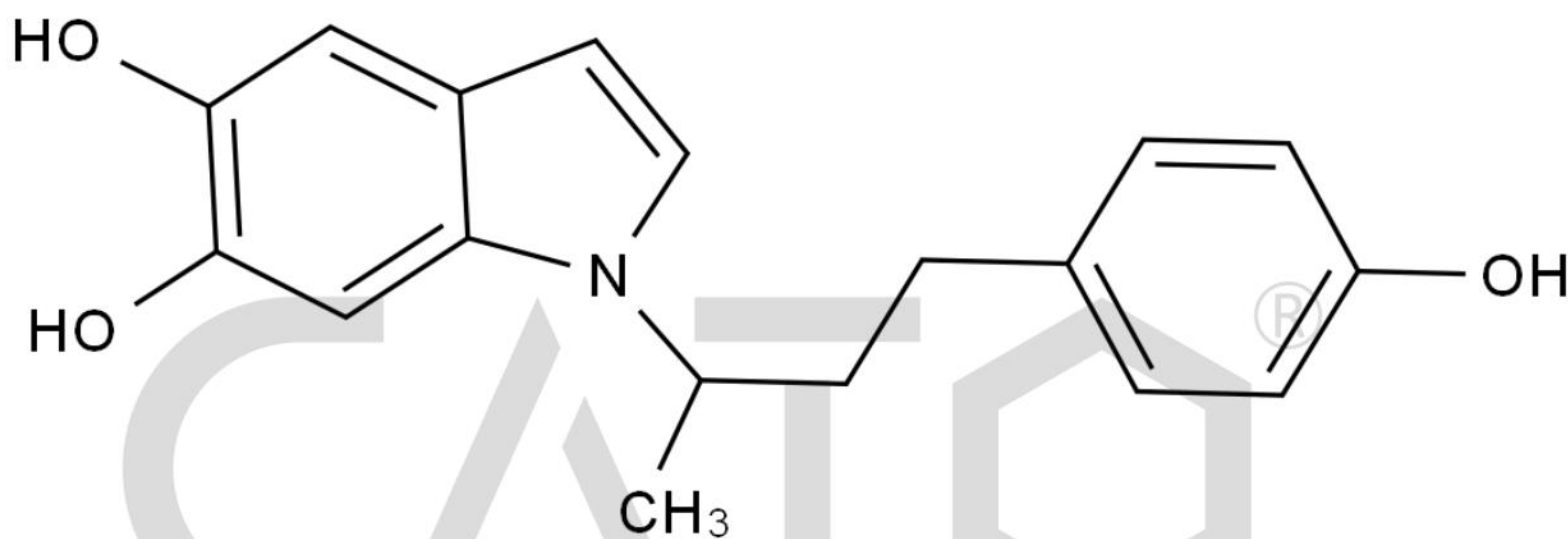


Certificate of Analysis

Reference Material & Standard

Product Name:	Dobutamine Impurity 23	Catalogue Number:	C4X-129823
Synonyms:	N/A	Lot Number:	1212-RG-0073
CAS Number:	2514709-72-7	Expiry Date:	Dec 10, 2029
Molecular Formula:	C ₁₈ H ₁₉ NO ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	297.35	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	99.11%
Loss On Drying	TGA	1.4121%
Assay		97.7%

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:

Hin Lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Dec 18, 2025

Date: Dec 18, 2025

Date: Dec 18, 2025



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