

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0312	
Compound name	GYKI 53655 hydrochloride	
Chemical name	1-(4-Aminophenyl)-3-methylcarbonyl-4-methyl-3,4-dihydro-7,8-methylenedioxy-5H-2,3-benzodiazepine hydrochloride	
Batch number	E0864-14-1	
Batch molecular formula	C ₁₉ H ₂₀ N ₄ O ₃ · 1.5HCl · 0.9H ₂ O	
Batch molecular weight	423.30	
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Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 98.9%
NMR	¹ H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 5% MeOH/DCM shows one spot under uv	Meets specification: R _f =0.4
Physical appearance	Orange to yellow solid	Meets specification: Orange solid
Solubility	Soluble in water (100 mM, gentle warming) and in DMSO (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

02/12/2022

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.