

# Certificate of Analysis



Product Identification		Chemical Structure
<b>Catalog number</b>	HB3225	 HCl HCl
<b>Compound name</b>	TCS OX2 29	
<b>Chemical name</b>	(2S)-1-(3,4-Dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)-3,3-dimethyl-2-[(4-pyridinylmethyl)amino]-1-butanone hydrochloride	
<b>Batch number</b>	E2113-9-2	
<b>Batch molecular formula</b>	C <sub>23</sub> H <sub>31</sub> N <sub>3</sub> O <sub>3</sub> ·2HCl·1.2H <sub>2</sub> O	
<b>Batch molecular weight</b>	492.06	
Method	QC requirement	QC Result
<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 100 %
<b>NMR</b>	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>TLC</b>	TLC analysis in 10% MeOH/DCM shows one spot under UV/KMnO <sub>4</sub>	Meets specification: R <sub>f</sub> =0.5
<b>Specific rotation</b>	Specific rotation in water measured between +44° and +52°	Meets specification [α] <sub>D</sub> = +50 (c=1, H <sub>2</sub> O)
<b>Physical appearance</b>	White to off-white solid	Meets specification: Beige solid
<b>Solubility</b>	Soluble in water (100 mM) and in DMSO (10 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.