

# Certificate of Analysis



Product Identification		Chemical Structure
<b>Catalog number</b>	HB1262	
<b>Compound name</b>	CHIR 99021 trihydrochloride	
<b>Chemical name</b>	6-[[2-[[4-(2,4-Dichlorophenyl)-5-(5-methyl-1H-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]-3-pyridinecarbonitrile trihydrochloride	
<b>Batch number</b>	E0990-4-1	
<b>Batch molecular formula</b>	C <sub>22</sub> H <sub>18</sub> N <sub>8</sub> Cl <sub>2</sub> ·3HCl	
<b>Batch molecular weight</b>	574.73	
Method	QC requirement	QC Result
<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 99.7%
<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 50% PAW/BuOH shows one spot under uv	Meets specification: R <sub>f</sub> =0.8
<b>Physical appearance</b>	White to off-white solid	Meets specification: White solid
<b>Solubility</b>	Soluble in water (25 mM) and in DMSO (50 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

27-06-19

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