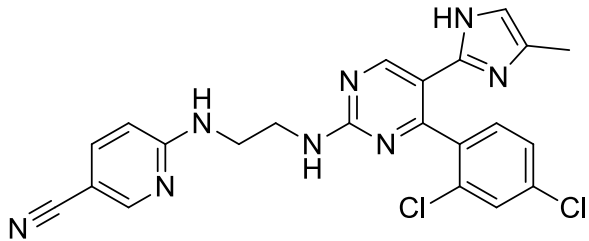




## Certificate of Analysis

<b>MedKoo Cat#:</b>	<b>Product Name:</b>	<b>Lot#:</b>
200774	CHIR-99021	A8T12K19

<b>Chemical name</b>	
6-((2-((4-(2,4-dichlorophenyl)-5-(4-methyl-1H-imidazol-2-yl)pyrimidin-2-yl)amino)ethyl)amino)nicotinonitrile	
<b>Synonyms</b>	
CHIR99021; CHIR-99021; CHIR 99021; CT99021; CT-99021; CT 99021.	
<b>Chemical structure</b>	<b>CAS# and Theoretical analysis</b>
	MedKoo Cat#: 200774 Name: CHIR-99021 CAS#: 252917-06-9 Lot#: A8T12K19 Chemical Formula: C <sub>22</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>8</sub> Exact Mass: 464.10315 Molecular Weight: 465.34

Analysis item	Specifications / Results
<b>Appearance</b>	Beige to yellow solid powder
<b>Structure</b>	<sup>1</sup> H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
<b>Purity (HPLC)</b>	>98.0%
<b>Solubility</b>	Soluble in DMSO.
<b>Conclusion</b>	This product conforms with MedKoo's quality standards
<b>Shipping condition</b>	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
<b>Storage condition</b>	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
<b>Shelf life</b>	At least 5 years if properly stored.

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**