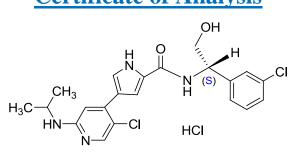


**Certificate of Analysis** 



Ulixertinib (Hydrochloride) (1:1)*
BVD-523, VRT752271
869886-67-9
CT-VRT752
02
$\begin{array}{c} C_{21}H_{22}CI_{2}N_{4}O_{2}\cdot HCI \\ 469.8 \end{array}$
Soluble in DMSO (47mg/ml, 100mM)
Store at 0 °C (short term), -20 °C (long term), desiccated

Appearance	Snow-white crystalline powder
Quality Control	MS: $[]$ <sup>1</sup> HNMR: $[]$ HPLC: $[]$ Chiral HPLC: $[]$ Quantitative Elemental Analysis: $[]$ $C_{21}H_{22}Cl_2N_4O_2 \cdot HCl$ Calculated: C: 53.69%; H:4.93 %; N: 11.93%; Cl: 22.64% Found: C: 53.41%; H:5.02 %; N: 11.76%; Cl: 22.70%
	*Confirmed by a perfect Elemental Analysis
Chemical Purity	>99.5% (HPLC at 214 nm) >99.5% (HPLC at 254 nm)
Optical Purity (ee)	100% (Chiral HPLC)