

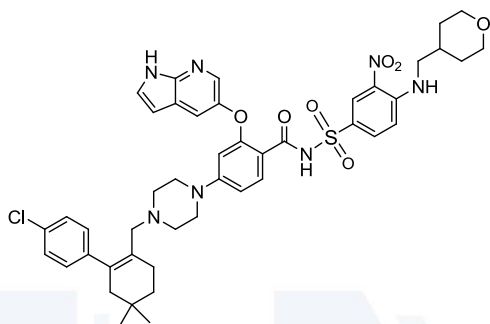


Northeast Business Center

7301 E. 90th Street, Suite 117, Indianapolis, IN 46256, USA

Phone: 317.598.0828 Fax: 317.598.0835 www.chemietek.com

Certificate of Analysis



Product Name:	ABT-199
Synonym:	Venetoclax, GDC-0199
CAS No:	1257044-40-8
Prod. No:	CT-A199
Lot No:	08
Batch Empirical Formula Batch Empirical Wt.	C ₄₅ H ₅₀ ClN ₇ O ₇ S·1.5H ₂ O 895.5
Solubility	Soluble in DMSO (71.6mg/ml, 80 mM)
Storage	Store at 0 °C (short term), -20 °C (long term), desiccated

Appearance	Yellow powder, recrystallized
Quality Control	MS: [✓] ¹ HNMR: [✓] HPLC: [✓] Quantitative Elemental Analysis [✓]: C₄₅H₅₀ClN₇O₇S·1.5H₂O Calculated: C: 60.36% H: 5.97% N: 10.95% Found: C: 60.46% H: 6.10% N: 10.78%
Loss on Drying	< 0.2%
Chemical Purity	>99.5% (HPLC at 214 nm) >99.5% (HPLC at 254 nm)