

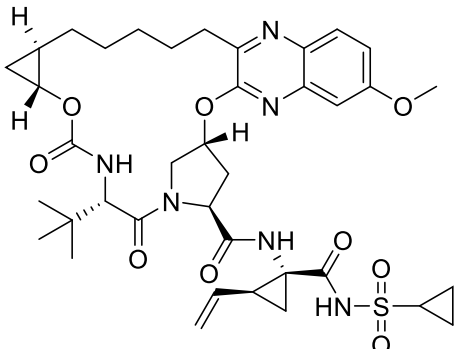


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
501205	Grazoprevir	TZC60415

Chemical name
(33R,35S,91R,92R,5S)-5-(tert-butyl)-N-((1R,2S)-1-((cyclopropylsulfonyl)carbamoyl)-2-vinylcyclopropyl)-17-methoxy-4,7-dioxo-2,8-dioxo-6-aza-1(2,3)-quinoxalina-3(3,1)-pyrrolidina-9(1,2)-cyclopropanacyclotetradecaphane-35-carboxamide

Synonyms
MK-5172; MK 5172; MK5172; Grazoprevir. trade name: Zepatier

Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 501205 Name: Grazoprevir (MK5172) CAS#: 1350514-68-9 (free) Lot#: TZC60415 Chemical Formula: C ₃₈ H ₅₀ N ₆ O ₉ S Exact Mass: 766.336 Molecular Weight: 766.91

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	¹ 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.
Purity (HPLC)	>99.0%
Solubility	Soluble in DMSO
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Self life	At least 5 years if properly stored.

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