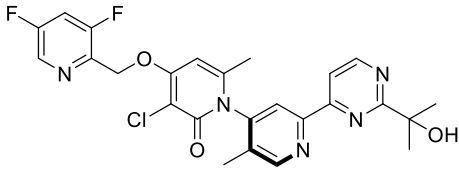




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
408186	Zunsemetinib M-atropisomer	Y22X10M28

Chemical name	
[1(2H),4'-Bipyridin]-2-one, 3-chloro-4-[(3,5-difluoro-2-pyridinyl)methoxy]-2'-[2-(1-hydroxy-1-methylethyl)-4-pyrimidinyl]-5',6-dimethyl-, (2' R)-	
Synonyms	
Zunsemetinib M-atropisomer; (M)-ATI-450; ATI-450 M-atropisomer; ATI-450; ATI450; ATI 450; CDD-450 M-atropisomer ; CDD 450; CDD450;	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 408186 Name: Zunsemetinib M-atropisomer CAS#: 1640282-44-5 (M-atropisomer) Chemical Formula: C ₂₅ H ₂₂ ClF ₂ N ₅ O ₃ Exact Mass: 513.1379 Molecular Weight: 513.93

Analysis item	Specifications / Results
Appearance	Yellow 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)	>98.0%
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
Shelf life	At least 3 years if properly stored.

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