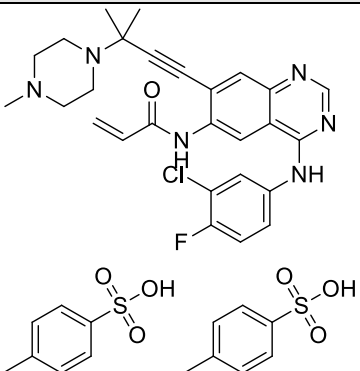




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
200944	AV 412 Tosylate	SSC51121

Chemical name	
N-(4-((3-chloro-4-fluorophenyl)amino)-7-(3-methyl-3-(4-methylpiperazin-1-yl)but-1-yn-1-yl)quinazolin-6-yl)acrylamide bis(4-methylbenzenesulfonate)	
Synonyms	
MP-412; MP 412; MP412; AV-412; AV 412; AV412; AV-412 tosylate.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 200944 Name: AV-412 Tosylate CAS#: 451493-31-5 Lot#: SSC51121 Chemical Formula: C ₄₁ H ₄₄ ClFN ₆ O ₇ S ₂ Molecular Weight: 851.41

Analysis item	Specifications / Results
Appearance	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)	>98.0%
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