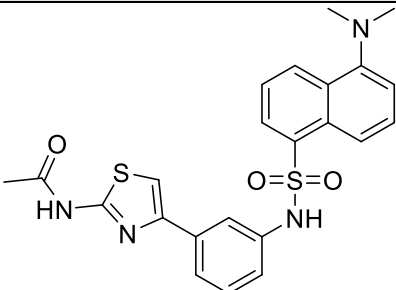


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
406823	HA-15 free base	T9D12P13

Chemical name	
N-(4-(3-((5-(dimethylamino)naphthalene)-1-sulfonamido)phenyl)thiazol-2-yl)acetamide	
Synonyms	
HA15; HA-15; HA 15	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 406823 Name: HA-15 free base CAS#: 1609402-14-3 Lot#: T9D12P13 Chemical Formula: C ₂₃ H ₂₂ N ₄ O ₃ S ₂ Exact Mass: 466.1133 Molecular Weight: 466.574

Analysis item	Specifications / Results
Appearance	Pale 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)	>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
Shelf life	At least 5 years if properly stored.

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