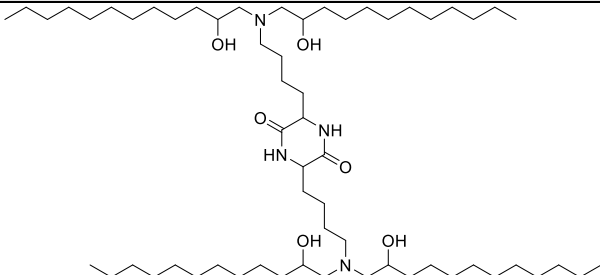




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
465718	CKK-E12	Y23X02M05

Chemical name	
3,6-bis(4-(bis(2-hydroxydodecyl)amino)butyl)piperazine-2,5-dione	
Synonyms	
CKK-E12; CKKE12; CKK E12; O-8744; O8744; O 8744	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 465718 Name: CKK-E12 CAS#: 1432494-65-9 Lot#: Y23X02M05 Chemical Formula: C ₆₀ H ₁₂₀ N ₄ O ₆ Exact Mass: 992.9208 Molecular Weight: 993.64

Analysis item	Specifications / Results
Appearance	Pale yellow viscous liquid
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	>95.0%
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 5 years if properly stored.

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