Certificate of Analysis

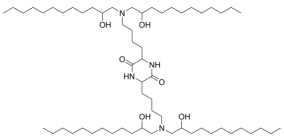
CKK-E12

Cat. No.:	HY-134781
CAS No.:	1432494-65-9
Batch No.:	228143
Chemical Name:	2,5-Piperazinedione, 3,6-bis[4-[bis(2-hydroxydodecyl)amino]butyl]-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{60}H_{120}N_4O_6$		
Molecular Weight:	**993.62**		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Chemical Structure:



ANALYTICAL DATA

Appearance:	Colorless to light yellow (Liquid)
^{1}H NMR Spectrum:	Consistent with structure
Purity (NMR):	**≥98.0%**
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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