

Certificate of Analysis

Iota-conotoxin RXIA (TFA)

Cat. No.:	HY-P5808A			
Batch No.:	387401			
Chemical Name:	L-Isoleucine, glycyl-(4R)-4-hydroxy-L-prolyl-L-seryl-L-phenylalanyl-L-cysteinyl-L-lysyl-L-alanyl-L			
	-α-aspartyl-L-α-glutamyl-L-lysyl-(4R)-4-hydroxy-L-prolyl-L-cysteinyl-L-α-glutamyl-L-tyrosyl-L-his			
	$tidyl\mbox{-}L\mbox{-}alanyl\mbox{-}L\mbox{-}\alpha\mbox{-}aspartyl\mbox{-}L\mbox{-}cyst\mbox{-}tidyl\mbox{-}L\mbox{-}aspartyl\mbox{-}L\mbox{-}cyst\mbox{-}tidyl\mbox{-}cyst\mbox{-}tidyl\mbox{-}L\mbox{-}cyst\mbox{-}tidyl\mbox{-}L\mbox{-}cyst\mbox{-}tidyl\m$			
	L-serylglycyl-L-isoleucyl-L-cysteinyl-L-alanyl-(4R)-4-hydroxy-L-prolyl-L-seryl-L-threonyl-L-aspar			
	aginyl-L-tryptophyl-L-isoleucyl-L-leucyl-L-prolylglycyl-L-cysteinyl-L-seryl-L-threonyl-L-seryl-L-se			
	ryl-L-phenylalanyl-D-phenylalanyl-L-lysyl-, cyclic (5→19),(12→22),(18→27),(21→38)-tetrakis(disulfi			
	de) (TFA)			
PHYSICAL AND CHEMICAL PROPERTIES				
Molecular Formula:	C ₂₁₂ H ₃₁₀ N ₅₄ O ₆₉ S ₈ .xC ₂ HF ₃ O ₂			
notecular i officia.	C212H310H54C6958+AC2H13C2			
Molecular Weight:	4975.57 (free base)			

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Storage:	Sealed storage,	Sealed storage, away from moisture and light		
	Powder	-80°C	2 years	
		-20°C	1 year	
	* In solvent : -80	°C, 6 months	s; -20°C, 1 month (sealed storage, away from moisture and light)	

Chemical Structure:

G-(Hyp)-SFCKADEK-(Hyp)-CEYHADCCNCCLSGICA-(Hyp)-STNWILPGCSTSSF-(d-Phe)-Ki (Disulfide bridge:Cys5-Cys19;Cys12-Cys22;Cys18-Cys27;Cys21-Cys38) (TFA salt)

ANALYTICAL DATA

Appearance:	White to off-white (Solid)
MS:	Consistent with structure
Purity (HPLC):	96.58%
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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