

Chlorotoxin (TFA)

Cat. No.: HY-P0173B
Batch No.: 260318
Chemical Name: L-Argininamide, L-methionyl-L-cysteinyl-L-methionyl-L-prolyl-L-cysteinyl-L-phenylalanyl-L-threonyl-L-threonyl-L- α -aspartyl-L-histidyl-L-glutamyl-L-methionyl-L-alanyl-L-arginyl-L-lysyl-L-cysteinyl-L- α -aspartyl-L- α -aspartyl-L-cysteinyl-L-cysteinylglycylglycyl-L-lysylglycyl-L-arginylglycyl-L-lysyl-L-cysteinyl-L-tyrosylglycyl-L-prolyl-L-glutamyl-L-cysteinyl-L-leucyl-L-cysteinyl-, cyclic (2 \rightarrow 19),(5 \rightarrow 28),(16 \rightarrow 33),(20 \rightarrow 35)-tetrakis(disulfide) (TFA)

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_{158}H_{249}N_{53}O_{47}S_{11} \cdot xC_2HF_3O_2$
Molecular Weight: 3995.71 (free base)
Storage: Sealed storage, away from moisture and light
Powder -80°C 2 years
 -20°C 1 year
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

Chemical Structure:

MCMPCFITDHHQMARKCDDCCGGKGR
GKCYGPQCLCR-NH₂(Disulfide bridge:
Cys2-Cys19,Cys5-Cys28,,Cys16-
Cys33,Cys20-Cys35) (TFA salt)

ANALYTICAL DATA

Appearance: White to off-white (Solid)
LCMS: Consistent with structure
Purity (LCMS): 98.53%
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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