
Product Data Sheet

Product Name: Ceratotoxin A

Cat. No.: GC32323

Chemical Properties

Cas. No. 150671-04-8

SMILES Ser-Ile-Gly-Ser-Ala-Leu-Lys-Lys-Ala-Leu-Pro-Val-Ala-Lys-Lys-Ile-Gly-Lys-Ile-Ala-Leu-Pro-Ile-Ala-Lys-Ala-Ala-Leu-Pro

Formula C₁₃₅H₂₄₃N₃₅O₃₂

M.Wt 2868.59

Solubility H₂O : 50 mg/mL (17.43 mM; Need ultrasonic)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Ceratotoxin A, a 29-residue peptide isolated from the accessory gland secretion fluid, with strong anti-bacterial activity.

Ceratotoxin A is a 29-residue peptide isolated from the accessory gland secretion fluid, shows anti-E.coli activity, and is heat stable[1]. Ceratotoxin A is effective against Escherichia coli ATCC 23739, Pseudomonas aeruginos ATCC 27853, and Bacillus subtilis ATCC 6633 with minimal inhibitory concentration (MIC) of 7, 7, and 3.5 μM[2].

[1]. Marchini D, et al. Purification and primary structure of ceratotoxin A and B, two antibacterial peptides from the female reproductive accessory glands of the medfly *Ceratitis capitata* (Insecta:Diptera). *Insect Biochem Mol Biol.* 1993 Jul;23(5):591-8. [2]. Marri L, et al. The novel antibacterial peptide ceratotoxin A alters permeability of the inner and outer membrane of *Escherichia coli* K-12. *Curr Microbiol.* 1996 Jul;33(1):40-3.

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

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