CTAP
Item No. 14959

CAS Registry No.: 103429-32-9
Formal Name: D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-arginyl-L-threonyl-3-mercapto-L-valyl-cyclic (2→7)-disulfide-L-threoninamide
MF: C_{51}H_{69}N_{13}O_{11}S_{2}
FW: 1,104.3
Purity: ≥95%
Stability: ≥6 months at -20°C

Laboratory Procedures

For long term storage, we suggest that CTAP be stored as supplied at -20°C. It should be stable for at least six months. CTAP is supplied as a white to off-white solid. A stock solution may be made by dissolving the CTAP in the solvent of choice. CTAP is soluble in water. We do not recommend storing the aqueous solution for more than one day.

CTAP is a water soluble, cyclic octapeptide which acts as a receptor antagonist that is selective for the µ opioid receptor (IC_{50} = 3.5 nM) over the δ receptor (IC_{50} = 4,500 nM).\(^1\) It is a poor antagonist of the somatostatin receptor (IC_{50} = 14.3 µM).\(^1\) CTAP is at least 10-fold more potent than naltrexone as an antagonist of diverse compounds which have antinociceptive effects through the µ opioid receptor.\(^2\) It resists enzymatic metabolism in the blood and enters the brain and cerebrospinal fluid.\(^3\)

References


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