Product Data Sheet

Product Name: ACTH (3-24) (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt)
Cat. No.: GC92115

Chemical Properties

Cas. No.

SMILES O=C(N[C@@H](CCSC)C(N[C@@H](CCC(O)=O)C(N[C@@H](CC1=CN([H])C=N1)C(N[C@H](C(N[C@@H](CCC/N=C(N[H])/N)C(N[C@@H](CC2=CN([H])C3=C2C=CC=C3)C(NCC(N[C@@H](CCCCN[H])C(N4CCC[C@H]4C(N[C@@H](C(C)C)C(NCC(N[C@@H](CCCCN[H])C(N[C@@H](CCCCN[H])C(N[C@@H](CCC/N=C(N[H])/N)C(N[C@@H](CCC/N=C(N[H])/N)C(N5CCC[C@H]5C(N[C@@H](C(C)C)C(N[C@@H](CCCCN[H])C(N[C@@H](C(C)C)C(N[C@@H](CC6=CC=C(O[H])C=C6)C(N7CCC[C@H]7C(O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O)CC8=CC=CC=C8)=O)=O)=O)[C@H](CO[H])N[H].OC(C(F)(F)F)=O

Formula	$C_{124}H_{196}N_{38}O_{27}S$? XCF_3COOH	M.Wt	2683.2
Solubility	DMSO: Sparingly soluble: 1-10 mg/mL,PBS (pH 7.2): Sparingly soluble: 1-10 mg/mL	Storage	-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

H – Ser – Met – Glu – His – Phe – Arg – Trp – Gly – Lys – Pro –
Val – Gly – Lys – Lys – Arg – Arg – Pro – Val – Lys – Val –
Tyr – Pro – OH

• XCF_3COOH

Background

Adrenocorticotropic hormone (ACTH) (3-24) is a potential impurity found in commercial preparations of tetracosactide, also known as cosyntropin, a synthetic form of ACTH (1-24).[1]

References:

[1]. Taichrib, A., Scriba, G.K., and Neusüss, C.Identification and characterization of impurities of

tetracosactide by capillary electrophoresis and liquid chromatography coupled to time-of-flight mass spectrometryAnal. Bioanal. Chem.401(4)1365-1375(2011).