

Product Name : FC131

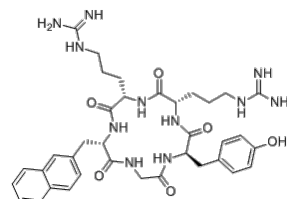
Synonyms : FC 131; cyclo(-D-Tyr-Arg-Arg-Nal-Gly-

Cat No. : M15275

CAS Number : 606968-52-9

Molecular Formula : C₃₆H₄₇N₁₁O₆

Formula Weight : 729.84



Chemical Name : 1,1'-(((2S,5S,8S,14R)-14-(4-hydroxybenzyl)-8-(naphthalen-2-ylmethyl)-3,6,9,12,15-pentaoxo-1,4,7,10,13-pentaazacyclopentadecane-2,5-diyl)bis(propane-3,1-diyl))diguanidine

Description : FC131 (cyclo(-D-Tyr-Arg-Arg-Nal-Gly-)) is a selective, cyclopentapeptide CXCR4 antagonist with IC₅₀ of 126 nM, exhibits anti-HIV activity in assays using NL4-3 and IIIB strains with EC₅₀ of 21 nM.

Pathway : GPCR/G Protein

Target : Chemokine Receptor

Receptor : Chemokine Receptor

Solubility : —

SMILES : O=C(NCC(N[C@@H]1CC2=CC=C(O)C=C2=O)[C@@H](NC([C@@H](NC([C@@H](NC1=O)CCCNC(N)=N)=O)CCCNC(N)=N)=O)CC3=CC(C=CC=C4)=C4C=C3

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tamamura H, et al. J Med Chem. 2005 Jan 27;48(2):380-91. | 2. Thiele S, et al. Br J Pharmacol. 2014 Dec;171(23):5313-29.