abcam

Product datasheet

TC 14012, Peptidomimetic CXCR4 antagonist ab230364

1 Image

Overview

Product name TC 14012, Peptidomimetic CXCR4 antagonist

Description Peptidomimetic CXCR4 antagonist

Biological description TC 14012 is a peptidomimetic CXCR4 antagonist. It blocks CXCR4-mediated HIV infection with

an IC $_{50}$ value of 19.3 nM. In addition, TC 14012 (100 $\mu g/ml)$ inhibits CXCL12-induced

phosphorylation of p42/44 MAPK and STAT3 in B cells from patients with chronic lymphocytic leukemia. TC 1412 is C-terminally amidated which results in high serum stability. TC 14012 is

CXCR7 agonist (EC $_{50}$ = 350 nM) promoting the recruitment of β -arrestin and Erk 1/2

phosphorylation.

Purity > 95%

CAS Number 368874-34-4

Chemical structure

 $\label{eq:arg-Arg-Pro-Tyr-Arg-D-Cit-Cys-Arg-NH} Arg-Arg-D-Cit-Cys-Arg-NH_2 \ (\mbox{Disulfide bridge 4-13})$

Properties

Molecular weight 2066.43

Sequence RRACYXKXPYRXCR (Modifications: Disulfide bridge between 4-13, C-terminal amide, Ala-3 =

3-(2-naphthalenylalanine), X-6 and X-12 = L-Citrulline, X-8 = D-Citrulline)

PubChem identifier 90488928

Storage instructions Shipped at 4°C. Store at -20°C.

 $\textbf{SMILES} \hspace{1cm} [H]N[C@@H](CCCNC(N)=N)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H] \\$

(CC1=CC2=CC=CCC=C1)C(=O)N[C@H]1CSSC[C@H](NC(=O)[C@@H]

(CCCNC(N)=O)NC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](CC2=CC=C(O)C=C2)NC(=O)[C@H](CCCN2C(=O)[C@H](CCCNC(N)=O)NC(=O)[C@H](CCCN)NC(ECCN)NC(EC

(CCCNC(N) = O)NC(=O)[C@H](CC2 = CC = C(O)C = C2)NC1 = O)C(=O)N[C@@H]

(CCCNC(N)=N)C(N)=O

Source Synthetic

lucarios



2D chemical structure image of ab230364, TC 14012, Peptidomimetic CXCR4 antagonist

Chemical Structure - TC 14012, Peptidomimetic CXCR4 antagonist (ab230364)

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