Product Data Sheet

Product Name: L-689502
Cat. No.: GC32013

Chemical Properties

Cas. No.	138483-63-3		
SMILES	O=C(OC(C)(C)C)N[C@@H](CC1=CC=CC=C1)[C@@H](O)C[C@@H](CC2=CC=C(OCCN3CCOCC3)C=C2)C(N[C@@H]4[C@H](O)CC5=C4C=CC=C5)=O		
Formula	$C_{39}H_{51}N_3O_7$	M.Wt	673.84
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	L-689502		

Protocol

Cell experiment:

G689502 (3.3 pmoles in 1 mL of 100% DMSO) is added to cultures that have been growing for 48 hr. The final substrate and DMSO concentrations during the fermentation period are 65 pM and 2%, respectively. The fermentations containing L-689502 are carried out for an additional 72-96 hr prior to be harvested.The whole broth is sequenthdly extracted with methanol (0.5 vol) and acetone (0.5 vol). The supematant containing the derivatives of L-689502 is separated from the mycelia by filtration[1].

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References:

[1]. Lingham RB, et al. HIV-1 protease inhibitory activity of L-694,746, a novel metabolite of L-689,502. Biochem Biophys Res Commun. 1991 Dec 31;181(3):1456-61.

Background

L-689502 is a potent inhibitor of HIV-l protease with an IC50 of 1 nM.

Both L694746 and L-689502 inhibit HIV-l ptotease activity in a concentration-dependent manner. Pepstatin is much less potent than either compound exhibiting an IC50 of 2 μM. L694746 is as potent as L-689502 in inhibiting the HIV-l protease despite being structurally different from L-689502[1].

[1]. Lingham RB, et al. HIV-1 protease inhibitory activity of L-694,746, a novel metabolite of L-689,502. Biochem Biophys Res Commun. 1991 Dec 31;181(3):1456-61.

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