



NBI-74330

Catalog No: tcsc2217

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

855527-92-3

Formula:

 $C_{32}H_{27}F_4N_5O_3$

Pathway:

GPCR/G Protein;Immunology/Inflammation

Target:

CXCR;CXCR

Purity / Grade:

>98%

Solubility:

DMSO : \geq 35 mg/mL (57.80 mM)

Observed Molecular Weight:

605.58

Product Description

NBI-74330 is a potent antagonist for CXCR3, and exhibits potent inhibition of (125 I)CXCL10 and (125 I)CXCL11 specific binding with $\mathbf{K_i}$



of 1.5 and 3.2 nM, respectively.

IC50 & Target: Ki: 1.5 nM (CXCL10), 3.2 nM (CXCL11)

In Vitro: BI-74330 demonstrates potent inhibition of [125 I]CXCL11 specific binding to membranes prepared from transfected CHO cells expressing CXCR3 (CXCR3-CHO) (1 E3.6 nM). NBI-74330 is 12- and 3.5-fold more potent than CXCL9 (1 E45.2 nM) and CXCL10 (1 E12.5 nM), respectively, at inhibiting [125 I]CXCL11 binding to CXCR3-CHO cell membranes. NBI-74330 inhibits calcium mobilization in response to CXCL11 and CXCL10 with an IC50 value of 7 nM for both ligands used at their EC80 concentrations (1 nM for CXCL11 and 30 nM for CXCL10). NBI-74330 specifically inhibits CXCR3-mediated calcium mobilization. NBI-74330 also dose-dependently inhibits CXCL11-induced [35 S]GTP 1 S binding in membranes of cells endogenously expressing CXCR3 (H9 cells, IC50 value 5.5 nM). BI-74330 inhibits CXCL11-induced chemotaxis in these cells with an IC50 of 3.9 nM 12 . NBI-74330 (30-300 nm, 1-10 µM) produces concentration-dependent, parallel rightward shifts of the CXCL11 E/[A] curve with no significant change in the E/[A] curve maximal response [12].

In Vivo: NBI-74330 (100 mg/kg) results in the formation of an N-oxide metabolite, also an antagonist of CXCR3, in mice^[2]. Mice treated with 100 mg/kg NBI-74330 (in 1% Na Doc in 0.5% 400Cp Methylcellulose) result in serum concentrations of approximately 1 μ M. This concentration is sufficient to fully block the CXCR3 receptor in vivo^[3].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!