



Xcess Biosciences Inc.

7144 N Harlem Ave #169
Chicago, IL 60631 USA

<http://www.xcessbio.com>

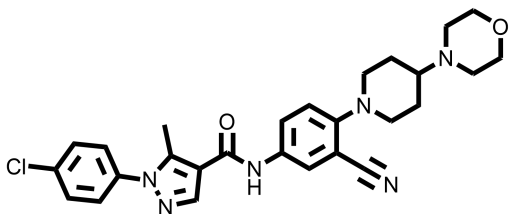
Toll free: 1-866-706-2330

Fax: 1-619- 810-0718

Email: info@xcessbio.com

IL-17 Immunomodulator – Y-320

Chemical Name: 1-(4-chlorophenyl)-N-(3-cyano-4-(4-morpholinopiperidin-1-yl)phenyl)-5-methyl-1H-pyrazole-4-carboxamide



Molecular Weight:	505.01
Formula:	C ₂₇ H ₂₉ ClN ₆ O ₂
Purity:	≥98%
CAS#:	288250-47-5
Solubility:	DMSO up to 20 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

Y-320 is an orally active potent immunomodulator. It inhibits IL-15-induced IL-17 production by CD4 T cells with an IC₅₀ of 20 nM. Therapeutic treatment with Y-320 (0.3 to 3 mg/kg orally) significantly inhibited the progression of arthritis and joint destruction in type II collagen-induced arthritis (CIA) in DBA/1J mice. Y-320 inhibited the elevation of IL-17 mRNA expression in the joint of CIA mice. Concomitant treatment with Y-320 and anti-mouse TNF-alpha antibody showed a synergistic effect in mouse CIA. Moreover, therapeutic treatment with Y-320 (0.3 and 1 mg/kg orally) ameliorated CIA in cynomolgus monkeys.

How to Use:

In vitro: Y-320 was used at 0.1-1 μM final concentration in various in vitro assays.

In vivo: Y-320 was administered orally at 0.3-3 mg/kg once day in mouse models.

Reference:

1. Ushio H, et al. A New Phenylpyrazoleamide, Y-320, Inhibits Interleukin 17 Production and Ameliorates Collagen-Induced Arthritis in Mice and Cynomolgus Monkeys. (2013) *Pharmaceuticals (Basel)* 7(1), 1-17.

Products are for research use only. Not for human use.