

Product Data Sheet

Product Name: Y-320
Cat. No.: GC13066

Chemical Properties

Cas. No. 288250-47-5

Chemical Name 1-(4-chlorophenyl)-N-[3-cyano-4-(4-morpholin-4-ylpiperidin-1-yl)phenyl]-5-methylpyrazole-4-carboxamide

SMILES CC1=C(C=NN1C2=CC=C(C=C2)Cl)C(=O)NC3=CC(=C(C=C3)N4CCC(CC4)N5CCOCC5)C#N

Formula	C ₂₇ H ₂₉ ClN ₆ O ₂	M.Wt	505.01
Solubility	≥ 24.8mg/mL in DMSO with gentle warming	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

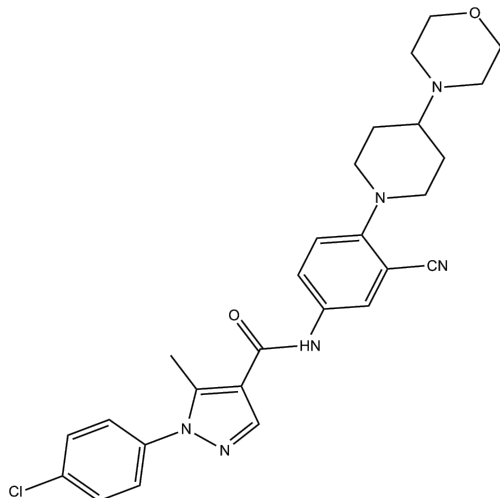
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

Y-320 is a new phenylpyrazoleanilide immunomodulator [1].

Immunotherapy refers to treatment of disease by suppressing, inducing or enhancing an immune response.

Y-320 is a new phenylpyrazoleanilide immunomodulator. Y-320 inhibited IL-17 production by CD4 T cells induced by IL-15 with IC₅₀ values of 20-60 nM [1].

In type II collagen-induced arthritis (CIA) mice, oral administration of Y-320 (0.3-3 mg/kg) reduced IL-17 mRNA expression and significantly inhibited the development of joint destruction and arthritis. The combination of Y-320 with anti-murine tumor necrosis factor- α (TNF- α) monoclonal antibody exhibited a synergistic effect. In cynomolgus monkeys, Y-320 (0.3-1 mg/kg) relieved CIA. These results suggested that Y-320 could be a useful candidate for therapy of rheumatoid arthritis (RA) [1].

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Reference:

[1]. Ushio H, Ishibuchi S, Oshita K, et al. A new phenylpyrazoleanilide, γ -320, inhibits interleukin 17 production and ameliorates collagen-induced arthritis in mice and cynomolgus monkeys. Pharmaceuticals (Basel), 2013, 7(1): 1-17.

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