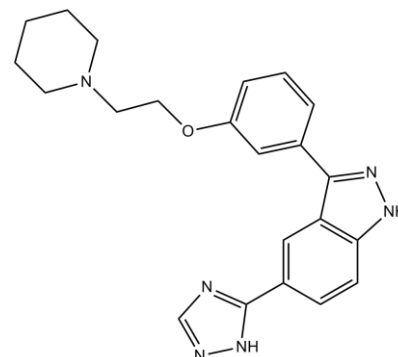


Product Data Sheet

Chemical Properties

Product Name:	CC-401
Cas No.:	395104-30-0
M.Wt:	388.47
Formula:	C ₂₂ H ₂₄ N ₆ O



Chemical Name:	3-[3-(2-piperidin-1-ylethoxy)phenyl]-5-(1H-1,2,4-triazol-5-yl)-1H-indazole
Canonical SMILES:	<chem>C1CCN(CC1)CCOC2=CC=CC(=C2)C3=NNC4=C3C=C(C=C4)C5=NC=NN5</chem>
Solubility:	≥19.4mg/mL in DMSO
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.
Shopping Condition:	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request

Biological Activity

Targets :	MAPK Signaling
Pathways:	JNK

Description:

CC-401 is a specific inhibitor of JNK with K_i values of 25-50nM [1].

CC-401 is a second generation ATP-competitive inhibitor of all three forms of JNK. It is selective against JNK over other kinases such as p38, ERK, IKK2 and ZAP70. CC-401 potently inhibits JNK in cell-based assay with concentration of 1 to 5 μ M. The activation of JNK signaling is identified in many immune-mediated kidney disease models. Thus, as the JNK inhibitor, CC-401 is found to be effective in these renal injury models. In the acute anti-GBM disease, CC-401 inhibits JNK

activation and causes 50%-70% reduction of proteinuria. In addition, CC-401 is also used in liver injury models [1, 2 and 3].

Reference:

[1] Ma F Y, Flanc R S, Tesch G H, et al. A pathogenic role for c-Jun amino-terminal kinase signaling in renal fibrosis and tubular cell apoptosis. *Journal of the American Society of Nephrology*, 2007, 18(2): 472-484.

[2] Flanc R S, Ma F Y, Tesch G H, et al. A pathogenic role for JNK signaling in experimental anti-GBM glomerulonephritis. *Kidney international*, 2007, 72(6): 698-708.

[3] Bogoyevitch M A, Arthur P G. Inhibitors of c-Jun N-terminal kinases—JunK no more *Biochimica et Biophysica Acta (BBA)-Proteins and Proteomics*, 2008, 1784(1): 76-93.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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