Product Data Sheet

Product Name: SR 3576
Cat. No.: GC16652

Chemical Properties

Cas. No.	1164153-22-3		
Chemical Name	3-(4-(3-(m-tolyl)ureido)-1H-pyrazol-1-yl)-N-(3,4,5-trimethoxyphenyl)benzamide		
SMILES	O=C(C1=CC(N2N=CC(NC(NC3=CC=CC(C)=C3)=O)=C2)=CC=C1)NC(C=C4OC)=CC(OC)=C4OC		
Formula	$C_{27}H_{27}N_5O_5$	M.Wt	501.53
Solubility	<50.15mg/ml 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	SR 3576		

Protocol

Cell experiment[1]:

Cell lines	Human ovarian cancer cisplatin-resistant SKOV3/DDP cells
Preparation method	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 ℃ for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20℃ for several months.
Reacting condition	24 h, 2 μM
Applications	SR 3576 is a specific inhibitor of JNK3. Inhibition of JNK3 by SR 3576 exacerbates oxidative stress and suppresses autophagic flux, resulting in an increase of apoptosis induced by S1 in human ovarian cancer SKOV3/DDP cells.

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References:

[1]. Yang X, Xiang X, Xia M, et al. Inhibition of JNK3 promotes apoptosis induced by BH3 mimetic S1 in chemoresistant human ovarian cancer cells[J]. The Anatomical Record, 2015, 298(2): 386-395.

Background

SR-3576 is a cell-permeable, potent and selective JNK3 (c-Jun N-terminal kinase 3) inhibitor.

SR-3576 is a small molecule inhibitor belonging to aminopyrazole class that selectively inhibits JNK3 with >2800 fold selectively over p38.

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