Product Data Sheet

Product Name: AZ 10417808
Cat. No.: GC13171

Chemical Properties

Cas. No.	331645-84-2		
Chemical Name	2-(3,4-dichloroanilino)-6-nitro-4-oxo-N-prop-2-enyl-1H-quinazoline-8-carboxamide		
SMILES	C=CCNC(=O)C1=C2C(=CC(=C1)[N+](=O)[O-])C(=O)N=C(N2)NC3=CC(=C(C=C3)Cl)Cl		
Formula	$C_{18}H_{13}Cl_2N_5O_4$	M.Wt	434.23
Solubility	<10.86mg/ml in DMSO	Storage	Store at RT
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	AZ 10417808		

Background

AZ 10417808 is a selective caspase-3 inhibitor with IC50 value of 14.9 uM [1].
The caspase-3 protein is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis [1].
AZ 10417808 (AQZ-1) is a potent small molecule nonpeptidic inhibitor of caspase-3, which block cellular and biochemical features of apoptosis [1].
AZ 10417808 was evaluated for its inhibitory activity against caspases 1, 2, 3, 6, 7, 8 and only caspases-3 was potently inhibited. AZ 10417808 completely blocked the staurosporine-induced intracellular DEVDase activity and this effect was dose-dependent. Of control cells (64 ± 7%) whereas cells treated with staurosporine plus 10 μM AZ 10417808 had 92 ± 2% viability, which indicated that the AZ 10417808 enhanced cell viability in SH-SY5Y cell culture apoptosis paradigm [1].
Reference:

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[1]. Scott CW, Briner CS, Wilkins DE, et al. Novel small molecule inhibitors of caspase-3 block cellular and biochemical features of apoptosis. J Pharmacol Exp Ther, 2003, 304(1): 433-40.

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