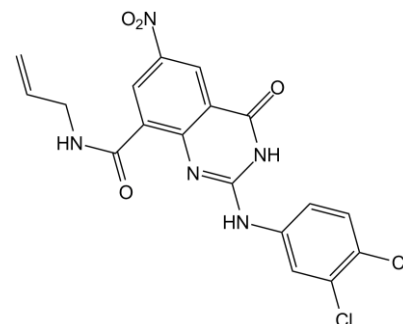


Product Data Sheet

Chemical Properties

Product Name:	AZ 10417808
Cas No.:	331645-84-2
M.Wt:	434.23
Formula:	C ₁₈ H ₁₃ Cl ₂ N ₅ O ₄



Chemical Name: 2-(3,4-dichloroanilino)-6-nitro-4-oxo-N-prop-2-enyl-1H-quinazoline-8-carboxamide

Canonical SMILES: C=CCNC(=O)C1=C2C(=CC(=C1)[N+](=O)[O-])C(=O)N=C(N2)NC3=CC(=C(C=C3)Cl)Cl

Solubility: Soluble in DMSO > 10 mM

Storage: Store at RT

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 : Caspase

Pathways: Apoptosis >> Caspase

Description:

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 caspase-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:

[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.

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. Short-term 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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