

Certificate of Analysis

Print Date: Jun 26th 2014

Batch No.: 1

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Catalog No.: 5141

Product Name: AZD 5582 dihydrochloride

IUPAC Name:

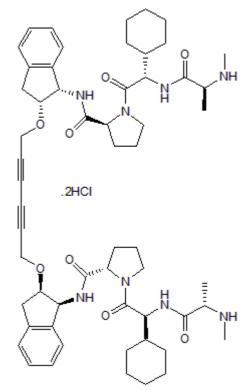
3,3'-[2,4-Hexadiyne-1,6-diylbis[oxy[(1S,2R)-2,3-dihydro-1H-indene-2,1-diyl]]]bis[N-methyl-L-alanyl-(2S)-2cyclohexylglycyl-L-prolinamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:
Batch Molecular Weight:
Physical Appearance:
Solubility:

C₅₈H₇₈N₈O₈.2HCI.2H₂O 1124.24 Beige solid water to 100 mM DMSO to 100 mM Store at -20°C

Storage: **Batch Molecular Structure:**



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

R_f = 0.4 (Ethyl acetate:Methanol:Ammonia soln. [9:1:0.3]) Shows >97.8% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 61.96 7.53 9.97

9.75

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61.72

7.68

Found

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Description:

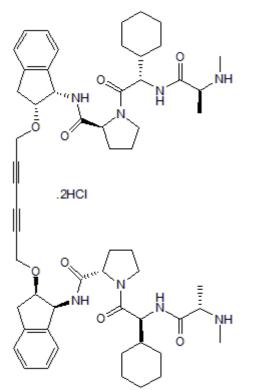
Dimeric Smac mimetic; potent inhibitor of X-linked (XIAP) and cellular (cIAP) inhibitor of apoptosis protein (IC₅₀ values are 15, 15 and 21 nM for XIAP, cIAP1 and cIAP2 respectively). Binds to the BIR3 domain of XIAP to prevent interaction with caspase-9. Causes degradation of cIAP1 and cIAP2 and induces apoptosis in MDA-MB-231 breast cancer cells. Causes tumor regression in MDA-MB-231 xenograft-bearing mice.

Physical and Chemical Properties:

Batch Molecular Formula: C₅₈H₇₈N₈O₈.2HCl.2H₂O Batch Molecular Weight: 1124.24 Physical Appearance: Beige solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hennessy et al (2013) Discovery of a novel class of dimeric Smac mimetics as potent IAP antagonists resulting in a clinical candidate for the treatment of cancer (AZD5582). J.Med.Chem. 56 9897. PMID: 24320998.

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