TOCRIS
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Print Date: Apr 26th 2016

Certificate of Analysis

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Product Name: **MI 2 (MALT1 inhibitor)** **Catalog No.: 4848** **Batch No.: 2**

CAS Number: 1047953-91-2

IUPAC Name: 2-Chloro-*N*-[4-[5-(3,4-dichlorophenyl)-3-(2-methoxyethoxy)-1*H*-1,2,4-triazol-1-yl]phenylacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{17}Cl_3N_4O_3$

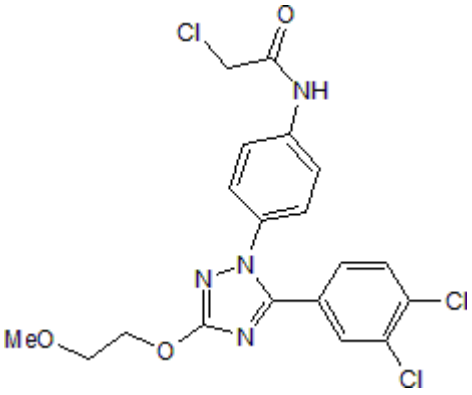
Batch Molecular Weight: 455.72

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.08	3.76	12.29
Found	50.37	3.7	12.18

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Description:

MALT1 inhibitor (IC_{50} = 5.84 µM). Binds directly to MALT1 and irreversibly suppresses protease function. Decreases NF-κB activity induced by MALT1. Inhibits cell proliferation and MALT1-mediated cleavage activity. Suppresses human TMD8 and HBL-1 activated B cell-like diffuse large B cell lymphoma (ABC-DLBCL) tumor xenografts in mice and primary human ABC-DLBCLs ex vivo.

Physical and Chemical Properties:

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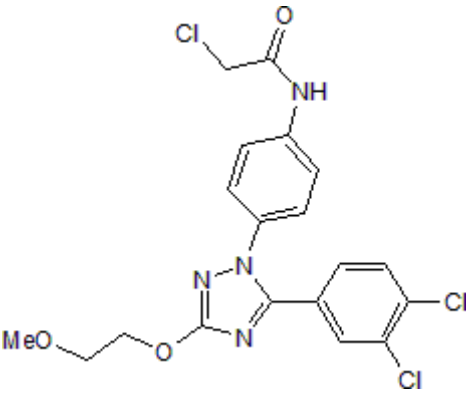
Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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).

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:

Fontan *et al* (2012) MALT1 small molecule inhibitors specifically suppress ABC-DLBCL in vitro and in vivo. Cancer Cell ***22*** 812. PMID: 23238016.

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