

Product Name: Maritoclax

Catalog No.: 5368

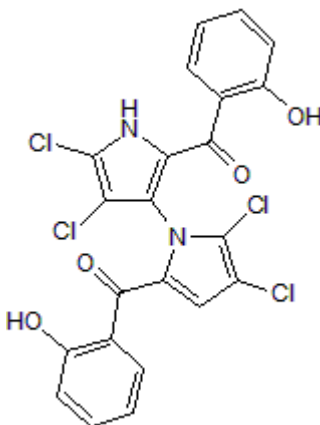
Batch No.: 1

CAS Number: 1227962-62-0

IUPAC Name: 1,1'-(4,4',5,5'-Tetrachloro[1,3'-bi-1*H*-pyrrole]-2,2'-diyl)bis[1-2-hydroxyphenyl)methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₂Cl₄N₂O₄
Batch Molecular Weight: 510.15
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Ethyl acetate:Petroleum ether [2:3])
HPLC: Shows 97.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.8	2.37	5.49
Found	51.86	2.39	5.37

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Mcl-1 inhibitor; disrupts Mcl-1-Bim interaction and induces Mcl-1 proteasomal degradation. Exhibits no effect on Bcl-X_L-Bim interaction. Selectively induces apoptosis in Mcl-1-dependent K562 leukemia cells. Sensitizes K562 and Raji cells to ABT-737-induced apoptosis.

Physical and Chemical Properties:

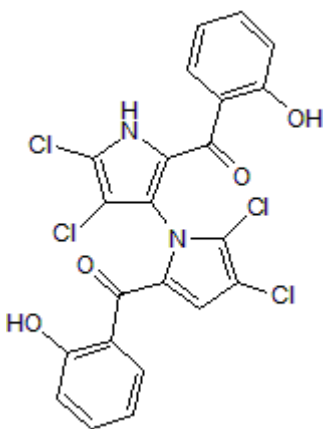
Batch Molecular Formula: C₂₂H₁₂Cl₄N₂O₄

Batch Molecular Weight: 510.15

Physical Appearance: Yellow solid

Minimum Purity: >97%

Batch Molecular Structure:



References:

Doi et al (2012) Discovery of marinopyrrole A (maritoclax) as a selective Mcl-1 antagonist that overcomes ABT-737 resistance by binding to and targeting Mcl-1 for proteasomal degradation. *J.Biol.Chem.* **287** 10224. PMID: 22311987.

Pandey et al (2013) Proteasomal degradation of Mcl-1 by maritoclax induces apoptosis and enhances the efficacy of ABT-737 in melanoma cells. *PLoS ONE* **8** e78570. PMID: 24223823.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

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