

Sanguinarium  
chloride  $C_{20}H_{14}ClNO_4$   
structure



**ASSIGN  
BUSTER**

## Contents

- Bio Activity:

Molecular      C<sub>20</sub> H<sub>14</sub> ClNO

Formula          4

Average mass   367. 783 Da

Density

Boiling Point

Flash Point

Molar

Refractivity

Polarizability

Surface Tension

Molar Volume

- Experimental data
- Predicted - ACD/Labs
- Predicted - ChemAxon
- Experimental Physico-chemical Properties

- **Experimental Melting Point:**

281-285

°CIndofine[021845]

285 °CBiosynthQ-

100647

240 °C

(Decomposes)LabNetwor

kLN01295316

281-285

°CIndofine[021845],

[021845]

- **Experimental Solubility:**

10 mM in

DMSOMedChem

Express[http://www.](http://www.medchemexpress.com/osthole.html)

medchemexpress.

com/osthole.html, HY-

N0052A

Soluble to 10 mM in

DMSOTocris

Bioscience2302

- Miscellaneous

- **Safety:**

GHS07BiosynthQ-100647

H302BiosynthQ-100647

P301+P312; P330BiosynthQ-  
100647

WarningBiosynthQ-100647

- **Target Organs:**

Egr-1 inhibitor; VEGF

inhibitorTargetMolT0129

- **Chemical Class:**

Ion PumpEU-OpenScreen[S  
5890]

- **Bio Activity:**

AngiogenesisTargetMolT  
0129

Egr-1;

VEGFTargetMolT0129

EnzymesTocris

Bioscience2302

Inhibitor of protein

phosphatase 2C

(PP2C)Tocris

Bioscience2302

Inhibitor of protein

phosphatase 2C (PP2C),

selective over PP1, PP2A

and PP2B in vitro. Also

inhibits mitogen-

activated protein kinase

phosphatase-1 (MKP-1)

(IC<sub>50</sub> = 10<sup>-7</sup> M). Plant

alkaloid that exhibits

anti-inflammatory and

antioxidant activity.

Blocks cell cycle in the

G1 phase; inhibits cell

growth in human

prostate carcinoma cells.

Tocris Bioscience2302

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Tocris Bioscience2302

OthersMedChem

ExpressHY-N0052A

PhosphatasesTocris

Bioscience2302

Protein Ser/Thr

PhosphatasesTocris

Bioscience2302

Sanguinarine (chloride)

is natural product.

MedChem

Expresshttp://www.

medchemexpress.

com/osthole.html, HY-

N0052A

Predicted data is generated using the ACD/Labs Percepta Platform -  
PhysChem Module

No predicted properties have been calculated for this compound.

Density:

Boiling Point:

Vapour Pressure:

Enthalpy of Vaporization:

Flash Point:

Index of Refraction:

Molar Refractivity:

#H bond acceptors:

#H bond donors:

#Freely Rotating Bonds:

#Rule of 5 Violations:

ACD/LogP:

ACD/LogD (pH 5. 5):

ACD/BCF (pH 5. 5):

ACD/KOC (pH 5. 5):

ACD/LogD (pH 7. 4):

ACD/BCF (pH 7. 4):

ACD/KOC (pH 7. 4):

Polar Surface Area:

Polarizability:

Surface Tension:

Molar Volume:

Click to predict properties on the Chemicalize site