



# Unique Natural Products & Rare Antibiotics

From Bacterial, Fungal, Marine & Plant Sources

## Compounds from Plant Sources



### Thapsigargin (high purity)

AG-CN2-0003

1 mg | 5 mg | 10 mg

**BULK | Original Source**

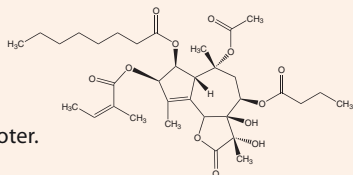
Formula: C<sub>34</sub>H<sub>50</sub>O<sub>12</sub>

MW: 650.8

CAS: 67526-95-8

Source: *Thapsia garganica*

Non-TPA/PMA tumor promoter.



### Amorfrutin B

AG-CN2-0464

Formula: C<sub>26</sub>H<sub>32</sub>O<sub>4</sub>

MW: 408.5

CAS: 1174387-94-0

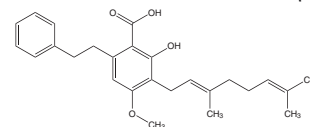
Source: *Amorpha fruticosa*

Natural PPAR $\gamma$  agonist with potent glucose-lowering properties.

**Also Available: Amorfrutin A**

**NEW**

500  $\mu$ g



### Phorbol 12-myristate 13-acetate [TPA/PMA]

AG-CN2-0010

1 mg | 5 mg | 10 mg | 25 mg

**BULK | Original Source**

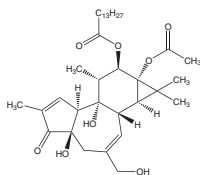
Formula: C<sub>36</sub>H<sub>56</sub>O<sub>8</sub>

MW: 616.8

CAS: 16561-29-8

Source: *Semisynthetic from Croton sp.*

Potent tumor promoter.



### Pellitorine

AG-CN2-0009

1 mg | 5 mg

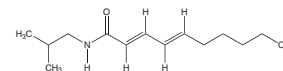
Formula: C<sub>14</sub>H<sub>25</sub>NO

MW: 223.4

CAS: 18836-52-7

Source: *Synthetic. Originally from Anacyclus pyrethrum.*

Tingling-inducing agent. Excellent stable model compound for sensory studies. Exerts same profile as the unstable compound hydroxy- $\alpha$ -sanshool.



### Other Selected Compounds

#### Cinnamtannin B-1 (Potent antioxidant)

AG-CN2-0428

5 mg

#### Zerumbone (Potent antitumor compound)

AG-CN2-0004

10 mg | 50 mg

#### Hyperforin . DCHA (Potent SIRT1/2 inhibitor)

AG-CN2-0008

500  $\mu$ g | 1 mg

#### Ingenol-3-angelate (Specific PKC activator)

AG-CN2-0012

1 mg | 5 mg

#### Triptolide (Potent immunosuppressant)

AG-CN2-0448

1 mg | 5 mg | 10 mg

# Compounds from Marine Sources

## Ageladine A . TFA

AG-CMA-1001

Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>2</sub>N<sub>5</sub> · C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>

MW: 357.0 · 114.0

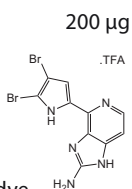
CAS: 950766-21-9

Source: *Agelas nakamurai*

Non-toxic, cell permeable, pH-dependent fluorescent dye.

Exhibits *in vitro* and *in vivo* antiangiogenic activity.

Selective inhibitor of DYRK1A, DYRK2, TYK2.



## Ilimaquinone

AG-CN2-0038

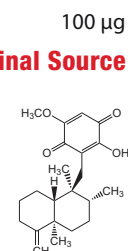
Formula: C<sub>22</sub>H<sub>30</sub>O<sub>4</sub>

MW: 358.5

CAS: 71678-03-0

Source: *Anthelia* sp.

Cytoplasmic microtubule inhibitor. Cell permeable, antimicrobial, anti-inflammatory, antimitotic and cytotoxic compound.



**BULK | Original Source**

## Jasplakinolide

AG-CN2-0037

50 µg | 100 µg

**BULK | Original Source**

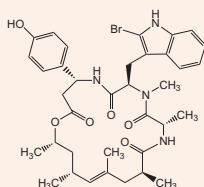
Formula: C<sub>36</sub>H<sub>45</sub>BrN<sub>4</sub>O<sub>6</sub>

MW: 709.7

CAS: 102396-24-7

Source: *Jaspis splendens*

Cell permeable, non-fluorescent F-actin probe. Potent inducer of actin polymerization and stabilization. Tool used for autophagy/phagocytosis research.



## Latrunculin A

AG-CN2-0027

100 µg | 500 µg

**BULK | Original Source**

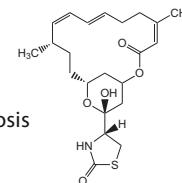
Formula: C<sub>22</sub>H<sub>31</sub>NO<sub>5</sub>S

MW: 421.6

CAS: 76343-93-6

Source: *Latrunculina magnifica*

Actin polymerization inhibitor. Potent phagocytosis inhibitor. Anticancer compound. Inhibits tumor cell invasion.



## Tetrodotoxin

AG-CN2-0452 (free base)

1 mg

AG-CN2-0450 (citrate, water soluble)

1 mg

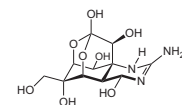
Formula: C<sub>11</sub>H<sub>17</sub>N<sub>3</sub>O<sub>8</sub>

MW: 319.3

CAS: 4368-28-9 (citrate free)

Source: *Tetraodontidae*

Potent neurotoxin. Selective, reversible excitable voltage-gated sodium channel (VGSC) blocker.



## UNIQUE

## Salinosporamide A [Marizomib; NPI-0052]

AG-CN2-0444

100 µg

**BULK | Original Source**

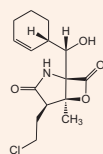
Formula: C<sub>15</sub>H<sub>20</sub>ClNO<sub>4</sub>

MW: 313.8

CAS: 437742-34-2

Source: *Salinospira tropica*

Potent, irreversible inhibitor of all the three proteolytic activities of the mammalian 20S proteasome.



## Other Selected Compounds

### Aerothionin (Antibiotic & Antimycobacterial)

AG-CN2-0453

1 mg

### 10Z-Hymenialdisine (Potent NF-κB inhibitor)

AG-CN2-0067

500 µg | 1 mg

### Psammaplin A (Class I HDAC inhibitor)

AG-CN2-0088

100 µg | 500 µg

### Latrunculin B (Actin polymerization inhibitor)

AG-CN2-0031

1 mg

### 16-epi-Latrunculin B (Actin polymerization inhibitor)

AG-CN2-0034

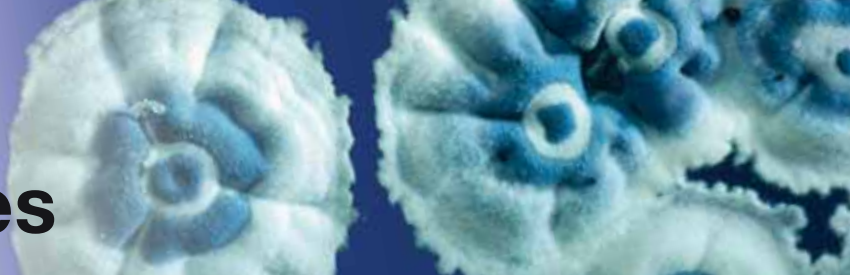
100 µg

### Swinholide A (Specific F-actin inhibitor)

AG-CN2-0035

10 µg | 50 µg

# Compounds from Bacterial Sources



## Bafilomycin A<sub>1</sub> (high purity)

BVT-0252

Formula: C<sub>35</sub>H<sub>58</sub>O<sub>9</sub>

MW: 622.8

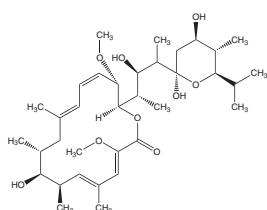
CAS: 88899-55-2

Source: *Streptomyces griseus*

Specific vacuolar-type H<sup>+</sup>-ATPase inhibitor. Distinguishes among different types of ATPases. Inhibitor of endosomal, lysosomal and vacuolar acidification.

Also Available: **Bafilomycin B**, & **C**,

100 µg | 1 mg



## Borrelidin

BVT-0098

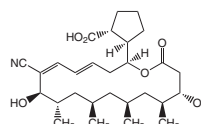
Formula: C<sub>28</sub>H<sub>43</sub>NO<sub>6</sub>

MW: 489.6

CAS: 7184-60-3

Source: *Streptomyces sp.*

Bacterial, protozoan and mammalian threonyl-tRNA synthetase (THrRS) inhibitor. Antiangiogenic (IC<sub>50</sub> = 0.8 nM) and anticancer agent.



500 µg | 1 mg | 5 mg

## Concanamycin A (high purity)

BVT-0237

25 µg | 100 µg | 1 mg

Formula: C<sub>46</sub>H<sub>75</sub>NO<sub>14</sub>

MW: 866.1

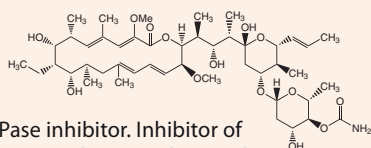
CAS: 80890-47-7

Source: *Streptomyces sp.*

Potent and specific H<sup>+</sup>-ATPase inhibitor. Inhibitor of autophagic degradation by rising lysosomal pH and thus inactivating the lysosomal acid hydrolases.

Also Available: **Concanamycin B** & **C**

**BULK | Original Source**



## Lactacystin

AG-CN2-0104

100 µg | 200 µg | 500 µg | 1 mg

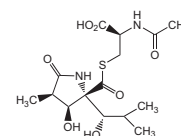
Formula: C<sub>15</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub>S

MW: 376.4

CAS: 133343-34-7

Source: *Streptomyces lactacystinnaeus* strain OM-6519

Potent and selective irreversible proteasome inhibitor. Specifically inhibits 20S proteasome.



**UNIQUE**

## Tropodithietic acid [TDA]

BVT-0152

1 mg | 5 mg

Formula: C<sub>8</sub>H<sub>4</sub>O<sub>3</sub>S<sub>2</sub>

MW: 212.3

CAS: 750590-18-2

Source: *Roseobacter gallaeciensis*

Antibiotic. Active against Gram-positive and Gram-negative bacteria. Antifungal and anti-nematocidal. Shows antitumor activity. Bacterial signal substance.

**Unique Antibiotic Structure**



## Manumycin A

BVT-0091

1 mg | 5 mg | 10 mg

Formula: C<sub>31</sub>H<sub>38</sub>N<sub>2</sub>O<sub>7</sub>

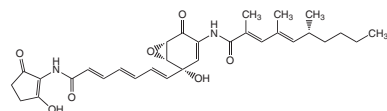
MW: 550.6

CAS: 52665-74-4

Source:

*Streptomyces parvulus*

Potent, selective and competitive cell permeable rasfarnesyltransferase inhibitor.



## Other Selected Compounds

### Actinonin (Aminopeptidase M inhibitor)

AG-CN2-0161

5 mg | 25 mg

### Boromycin (Anti-HIV compound)

AG-CN2-0166

250 µg | 1 mg

### Helvolic acid (Potent antibacterial compound)

BVT-0435

1 mg | 5 mg

### Kirromycin (Protein biosynthesis inhibitor)

BVT-0157

1 mg | 5 mg

### Prodigiosin (mTORC 1/2 inhibitor)

AG-CN2-0105

250 µg | 1 mg

### Rebecamycin (Antitumor compound)

BVT-0139

250 µg | 1 mg

Visit [www.adipogen.com](http://www.adipogen.com) for a **Complete Bacterial Compounds Overview!**

# Compounds from Fungal Sources

## (+)-Aphidicolin

BVT-0307

Formula: C<sub>20</sub>H<sub>34</sub>O<sub>4</sub>

MW: 338.5

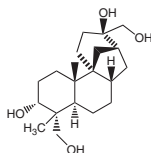
CAS: 38966-21-1

Source: *Phoma sp. BS 7210*

Antiviral and antineoplastic agent. Specific DNA polymerase  $\alpha$  and  $\delta$  inhibitor in eukaryotic cells and in some viruses of animal origin.

**Also Available:** *Aphidicolin 17-acetate, Aphidicolin-3 $\alpha$ , 18-acetonide, 3-Deoxyaphidicolin*

1 mg | 5 mg | 25 mg



## Chetomin

BVT-0161

Formula: C<sub>31</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>S<sub>4</sub>

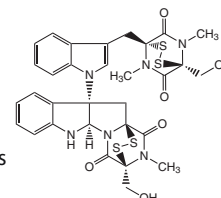
MW: 710.9

CAS: 1403-36-7

Source: *Chaetomium sp.*

Tumor growth inhibitor. Inhibitor of HIF-1 formation. Histone H3K9 methyltransferases G9a and Suv39h inhibitor. Potent immunosuppressor.

1 mg | 5 mg



### THE SOURCE

## Fumitremorgin C

BVT-0189

Formula: C<sub>22</sub>H<sub>25</sub>N<sub>3</sub>O<sub>3</sub>

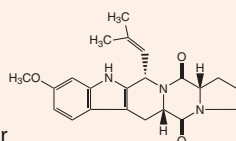
MW: 379.5

CAS: 118974-02-0

Source: *Aspergillus fumigatus*

Mycotoxin. Potent and specific inhibitor of the breast cancer resistance protein (BCRP; ABCG2).

250  $\mu$ g | 1 mg



### UNIQUE

## Heptelidic acid

AG-CN2-0118

Formula: C<sub>15</sub>H<sub>20</sub>O<sub>5</sub>

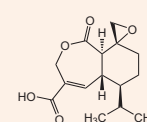
MW: 280.3

CAS: 74310-84-2

Source: *Trichoderma sp.*

Potent selective GAPDH inhibitor. Selectively kills high-glycolytic cancer cells through glucose-dependent active ATP deprivation.

250  $\mu$ g | 1 mg



## Other Selected Compounds

### Asteltoxin (Mitochondrial respiration inhibitor)

AG-CN2-0441

250  $\mu$ g

### Atpenin A5 (Mitochondrial complex II inhibitor)

AG-CN2-0100

250  $\mu$ g | 1 mg

### Butyrolactone I (Potent CDK-1, -2 & -5 inhibitor)

BVT-0448

200  $\mu$ g | 1 mg | 5 mg

### Meleagrins (Antifouling agent)

AG-CN2-0451

1 mg

### Rubratoxin A (Potent PP2A inhibitor)

AG-CN2-0092

250  $\mu$ g | 500  $\mu$ g

### Skyrin (Anti-diabetic agent)

AG-CN2-0001

1 mg

BVT-0445

5 mg

### Terpendole E (ACAT inhibitor)

AG-CN2-0127

250  $\mu$ g | 1 mg

### Viridiol (PI3K inhibitor)

AG-CN2-0126

250  $\mu$ g | 1 mg

## Many More Compounds Available like:

**Apicidin | Beauvericin | (+)-Brefeldin A | Citrinin | Cyclopenin | Cyclosporin A | Harzianum A | (3S,6R)-Lateritin  
Neoxaline | Radicol | Roquefortine C | Sclerotiorin | Staurosporine | Viridiol | Wortmannin**

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