## Morpholinosydnonimine

# Releases NO and superoxide anion under physiological conditions

SIN-1 is a metabolite of molsidomine which decomposes spontaneously in solution in the presence of oxygen, releasing NO and superoxide anion under physiological conditions. Since NO and superoxide react to form peroxynitrite, SIN-1 may actually produce peroxynitrite under physiological conditions. It is a potent vasodilator and inhibitor of platelet aggregation and produces significant protective effects in myocardial ischemia-reperfusion. The effects of SIN-1 are markedly attenuated by nitroglycerin-induced tolerance. Inhibits cysteine proteases.

Citations: 18

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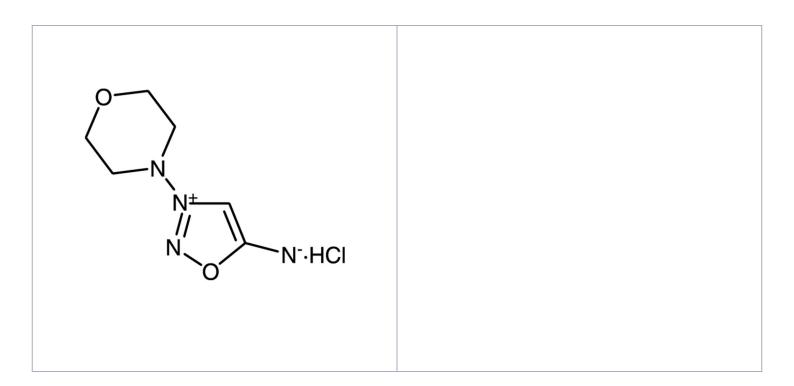
### **Ordering Information**

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BML-CN245-0020	20mg
BML-CN245-0100	100mg

Manuals, SDS & CofA

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#### **Handling & Storage**

**Use/Stability** As indicated on product label or CoA when stored as recommended.

**Handling** Use freshly prepared solutions.

Long Term Storage -20°C

**Shipping** Ambient Temperature

#### Regulatory Status RUO - Research Use Only

#### **Product Details**

Alternative Name SIN-1, Linsidomine

**Appearance** White to off-white solid.

CAS 33876-97-0

Couple Target Protease

Couple Type Inhibitor

Formula  ${
m C_6H_{10}N_4O_2}$  . HCl

**Identity** Determined by NMR.

**MW** 206.6

MeltingPoint 186-187°C

Purity ≥98% (HPLC)

Soluble in water (25mg/ml), 100% ethanol or DMSO

(>5mg/ml).

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ENZO LIFE SCIENCES, INC. Phone: 800.942.0430 infousa@enzolifesciences.com European Sales Office ENZO LIFE SCIENCES (ELS) AG Phone: +41 61 926 8989 infoeu@enzolifesciences.com Belgium, The Netherlands & Luxembourg Phone: +32 3 466 0420 infobe@enzolifesciences.com

France
Phone: +33 472 440 655
infofr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
infode@enzolifesciences.com

UK & Ireland Phone (UK customers): 0845 601 1488 Phone: +44 1392 825900 info-

uk@enzolifesciences.com