3-
Morpholinosydnonimine

Releases NO and superoxide anion under physiological conditions

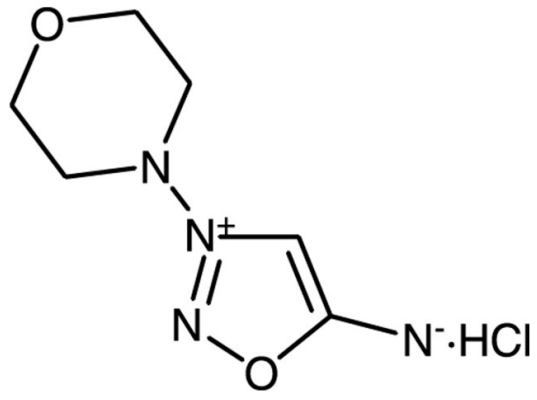
SIN-1 is a metabolite of molsidomine which decomposes spontaneously in solution in the presence of oxygen, releasing NO and superoxide anion under physiological conditions. Since NO and superoxide react to form peroxynitrite, SIN-1 may actually produce peroxynitrite under physiological conditions. It 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.

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Ordering Information Order Online »

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

Manuals, SDS & CofA View Online »

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	$C_6H_{10}N_4O_2$. HCl
Identity	Determined by NMR.
MW	206.6
MeltingPoint	186-187°C
Purity	≥98% (HPLC)
Solubility	Soluble in water (25mg/ml), 100% ethanol or DMSO (>5mg/ml).

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