LKT Laboratories, Inc.

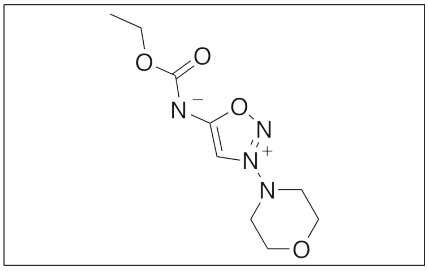
Molsidomine

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID M5746
CAS No. 25717-80-0
Chemical Name N-(Ethoxycarbonyl)-3-(4-morpholinyl)sydnone imine

Synonym Corvaton, Corvasal, Molsidolat, Morial, Motazominn



Formula $C_9H_{14}N_4O_4$
Formula Wt. 242.23
Melting Point 140-141°C
Purity ≥98%
Solubility Soluble in chloroform, methanol (50 mg/mL), ethanol (35 mg/mL), DMSO (70 mg/mL), DMF (13 mg/mL), ethyl acetate. Slightly soluble in
Store Temp Ambient
Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
M5746	500 mg
M5746	1 g
M5746	5 g

Description Molsidomine is a NO donor that exhibits vasodilatory, cardioprotective, anti-atherosclerotic, and anticoagulant activities. Molsidomine inhibits PDGF-induced smooth muscle cell migration and proliferation and suppresses carotid artery neointima formation in vivo by inhibiting activity of annexin A2. In vitro, molsidomine inhibits activated platelet adhesion.

References

Harnek J, Zoucas E, de Sá VP, et al. Intimal hyperplasia in balloon dilated coronary arteries is reduced by local delivery of the NO donor, SIN-1 via a cGMP-dependent pathway. BMC Cardiovasc Disord. 2011 Jun 11;11:30. PMID: 21663688.

Won KJ, Lee P, Jung SH, et al. 3-morpholinosydnonimine participates in the attenuation of neointima formation via inhibition of annexin A2-mediated vascular smooth muscle cell migration. Proteomics. 2011 Jan;11(2):193-201. PMID: 21204247.

Cardoso MH, Morganti RP, Lilla S, et al. The role of superoxide anion in the inhibitory effect of SIN-1 in thrombin-activated human platelet adhesion. Eur J Pharmacol. 2010 Feb 10;627(1-3):229-34. PMID: 19895807.