

Nicorandil

Catalog No: tcsc2383



Available Sizes

Size: 50mg



Specifications

CAS No:

65141-46-0

Formula:

$C_8H_9N_3O_4$

Pathway:

Membrane Transporter/Ion Channel

Target:

Potassium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 33 mg/mL (156.27 mM)

Alternative Names:

SG-75

Observed Molecular Weight:

211.17

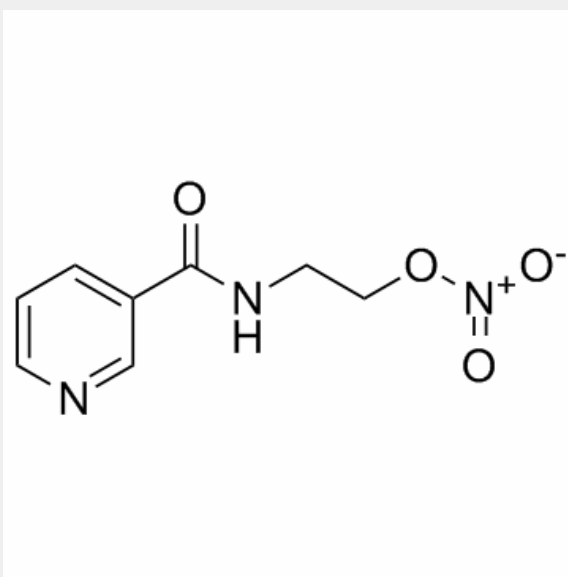
Product Description

Nicorandil is potassium channel activator.

Target: Potassium Channel

Nicorandil is a vasodilatory drug used to treat angina. Nicorandil stimulates guanylate cyclase to increase formation of cyclic GMP

(cGMP). cGMP activates protein kinase G (PKG) which phosphorylates and inhibits GTPase RhoA and decreases Rho-kinase activity. Reduced Rho-kinase activity permits an increase in myosin phosphatase activity, decreasing the calcium sensitivity of the smooth muscle. PKG also activates the sarcolemma calcium pump to remove activating calcium. PKG acts on K⁺ channels to promote K⁺ efflux and the ensuing hyperpolarization inhibits voltage-gated calcium channels. Overall, this leads to relaxation of the smooth muscle and coronary vasodilation [1, 2].



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