

**Product Name** : Nicorandil

**Synonyms** : 2-Nicotinamidoethyl nitrate; SG-75

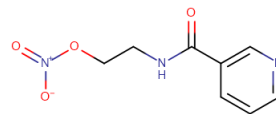
**Cat No.** : M15474

**CAS Number** : 65141-46-0

**Molecular Formula** : C<sub>8</sub>H<sub>9</sub>N<sub>3</sub>O<sub>4</sub>

**Formula Weight** : 211.18

**Chemical Name** : 2-Nicotinamidoethyl nitrate



**Description** : Nicorandil(Ikorel)is potassium channel activator. It acts by relaxing the smooth muscle of the blood vessels, especially those of the venous system. It does this through two methods. Firstly, by activating potassium channels, and secondly by donating nitric oxide to activate the enzyme guanylate cyclase. Guanylate cyclase causes activation of cGMP leading to both arterial and venous vasodilatation by de-phosphorylation of the myosin light chain.

**Pathway** : Cell Cycle/DNA Damage

**Target** : Potassium Channel

**Receptor** : Potassium Channel

**Solubility** : Ethanol: 42 mg/mL (198.89 mM); Water: 17 mg/mL (80.5 mM); DMSO: 42 mg/mL (198.89 mM)

**SMILES** : O=[N+][O-]OCCNC(=O)c1cccnc1

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1.Kandabashi T, et al. Circulation. 2000 Mar 21;101(11):1319-23.