

## Nicorandil-D4

## Chemical Properties

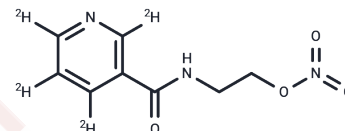
CAS No. : 1132681-23-2

Formula: C<sub>8</sub>H<sub>5</sub>D<sub>4</sub>N<sub>3</sub>O<sub>4</sub>

Molecular Weight: 215.2

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Nicorandil-D4 is intended for use as an internal standard for the quantification of nicorandil by GC- or LC-MS. Nicorandil (T0075) is an activator of sulfonylurea receptor 2B (SUR2B) linked to ATP-sensitive potassium channel Kir6.2 (EC <sub>50</sub> = ~10 μM) and a nitric oxide (NO) donor. It is selective for SUR2B/Kir6.2 over the SUR2A/Kir6.2 channel (EC <sub>50</sub> = >500 μM). Nicorandil (T0075) activates soluble guanylate cyclase in a cell-free assay and relaxes partially depolarized isolated bovine coronary artery strips (EC <sub>50</sub> = 4.4 μM). It decreases mean blood pressure, coronary resistance, and heart rate, as well as increases coronary sinus outflow, in dogs when administered intravenously at a dose of 1 mg/kg. Nicorandil (T0075) increases survival and decreases infarct size in a rabbit model of myocardial ischemia-reperfusion injury induced by left coronary artery occlusion. Formulations containing nicorandil have been used in the treatment of angina pectoris.
Targets(IC50)	Potassium Channel

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6468 mL	23.2342 mL	46.4684 mL
5 mM	0.9294 mL	4.6468 mL	9.2937 mL
10 mM	0.4647 mL	2.3234 mL	4.6468 mL
50 mM	0.0929 mL	0.4647 mL	0.9294 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481