# Data Sheet (Cat.No.TQ0175)



## Dexpramipexole

Chemical Propert	
CAS No. :	104632-28-2 сн <sub>3</sub>
Formula:	С10Н17N3S
Molecular Weight:	211.33
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year

## **Biological Description**

Description	Dexpramipexole (KNS-760704, R-(+)-Pramipexole) is a neuroprotective agent and weak non-ergoline dopamine agonist.
Targets(IC50)	Dopamine Receptor
In vitro	Dexpramipexole has neuroprotective effects. Dexpramipexole reduces mitochondrial reactive oxygen species (ROS) production, inhibits the activation of apoptotic pathways, and increase cell survival in response to a variety of neurotoxins and β-amyloid neurotoxicity. Compared to the S-(-) isomer, Dexpramipexole has much lower dopamine agonist activity.

Solubility Information	
Solubility	DMSO: 10 mg/mL (47.32 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

### Preparing Stock Solutions

10	1mg	5mg	10mg	
1 mM	4.7319 mL	23.6597 mL	47.3194 mL	
5 mM	0.9464 mL	4.7319 mL	9.4639 mL	
10 mM	0.4732 mL	2.366 mL	4.7319 mL	
50 mM	0.0946 mL	0.4732 mL	0.9464 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.

### Reference

Alavian KN, Dworetzky SI, Bonanni L, et al. Effects of dexpramipexole on brain mitochondrial conductances and cellular bioenergetic efficiency. Brain Res. 2012 Mar 29;1446:1-11.

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