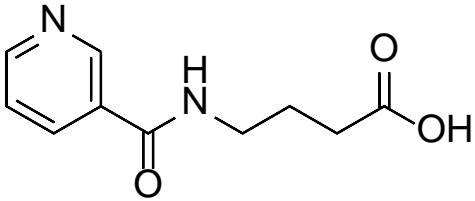


Product data sheet



MedKoo Cat#: 563150 Name: Nicotinoyl-GABA CAS: 34562-97-5 Chemical Formula: C ₁₀ H ₁₂ N ₂ O ₃ Exact Mass: 208.0848 Molecular Weight: 208.217		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Nicotinoyl-GABA is an antioxidant agent in neuroprotection treatment.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	17.0	81.65
DMSO:PBS (pH 7.2) (1:9)	0.10	0.48

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	4.80 mL	24.01 mL	48.03 mL
5 mM	0.96 mL	4.80 mL	9.61 mL
10 mM	0.48 mL	2.40 mL	4.80 mL
50 mM	0.10 mL	0.48 mL	0.96 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

Mirzoian RS, Gan'shina TS, Kosoř MIu, Aleksandrin VV, Aleksandrin PN. Vliianie pikamilona na krovosnabzhenie kory i mikrotsirkulatsiiu v sisteme pial'nykh arteriol [Effect of pikamilon on the cortical blood supply and microcirculation in the pial arteriole system]. Biull Eksp Biol Med. 1989 May;107(5):581-2. Russian. PMID: 2736292.

7. Bioactivity

Biological target:

Picamilon is a derivative of γ -aminobutyric acid that has nootropic effect.

In vitro activity

TBD

In vivo activity

Product data sheet



Pikamilon was shown to increase blood supply in cerebral cortex in conscious rats and rabbits. There is a pronounced dilatation of pial arterioles under pikamilon action while applied locally. Most dilation occurs in arterioles with the initial diameter of 10-20 microns. With the increase of pial arterioles diameter, dilatory effect of pikamilon, is reduced.

Reference: Biull Eksp Biol Med. 1989 May;107(5):581-2. <https://pubmed.ncbi.nlm.nih.gov/2736292/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.