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SNP (NO供体)

产品编号	产品名称	包装
S0015	SNP (NO供体)	1g

产品简介:

- SNP即Sodium Nitroprusside, Dihydrate, 也称Sodium Nitroferricyanide(III) Dihydrate。是一氧化氮的供体(nitric oxide donor)。
- SNP为暗红色结晶, 分子量298.0, 分子式为 $\text{Na}_2[\text{Fe}(\text{CN})_5\text{NO}] \cdot 2\text{H}_2\text{O}$, 纯度大于99%。
- 溶解于水, 可以配制成200mg/ml的水溶液。

包装清单:

产品编号	产品名称	包装
S0015	SNP (NO供体)	1g
—	说明书	1份

保存条件:

室温避光保存, 两年有效。

注意事项:

- 如果配制成水溶液, 分装后-20°C保存, 半年有效。
- 本产品对人体有毒, 操作时请特别小心, 并注意有效防护以避免直接接触人体或吸入体内。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

使用说明:

1. SNP储备液的配制: 称取少量SNP, 推荐使用Milli-Q级纯水溶解SNP, 使浓度为200mg/ml。
2. SNP的工作浓度通常为10-100 μM 。有时工作浓度可以达到500 μM 或1mM, 也可以低至1 μM 。其最佳工作浓度需根据具体的实验, 自行摸索。

使用本产品的文献:

1. Fu YB, Yin HY, Wang WX, Wang MY, Zhang HY, Zhao XM, Du YG. . β -1,3-Glucan with different degree of polymerization induced different defense responses in tobacco. Carbohydrate Polymers. 2011 Aug 15;86(2):774-782.
2. Wu W, Xu X, Dai Y, Xia L. . Therapeutic effect of the saponin fraction from Clematis chinensis Osbeck roots on osteoarthritis induced by monosodium iodoacetate through protecting articular cartilage. Phytother Res. 2010 Apr;24(4):538-46.
3. He Z, Tan Z, Sun Z, Beauchemin KA, Tang S, Zhou C, Han X, Wang M, Wu D. . Unchanged interleukin 6 level of protein and energy restricted goats during late gestation: the role of elevated blood nitric oxide. J Endocrinol. 2012 Apr;213(1):59-65.
4. Zhang Y, He LS, Zhang G, Xu Y, Lee OO, Matsumura K, Qian PY. . The regulatory role of the NO/cGMP signal transduction cascade during larval attachment and metamorphosis of the barnacle Balanus (=Amphibalanus) amphitrite. J Exp Biol. 2012 Nov 1;215(Pt 21):3813-22.
5. Huang X, Zhou Y, Ma J, Wang N, Zhang Z, Ji J, Ding Q, Chen G. . Nitric oxide mediated effects on reproductive toxicity caused by carbon disulfide in male rats. ENVIRON TOXICOL CHEM. 2012 Nov;34(3):679-87.
6. Wu W, Gao X, Xu X, Luo Y, Liu M, Xia Y, Dai Y. . Saponin-rich fraction from Clematis chinensis Osbeck roots protects rabbit chondrocytes against nitric oxide-induced apoptosis via preventing mitochondria impairment and caspase-3 activation. Cytotechnology. 2013 Mar;65(2):287-95.
7. Sun GG, Hu WN, Zhang J, Li CL, Yang CR. . Effect of nitric oxide on esophageal cancer cell line TE-1. J TRADIT CHIN MED. 2013 Mar;28(1):44-9.
8. Xiao L, Liu W, Li J, Xie Y, He M, Fu J, Jin W, Shao C. . Irradiated U937 cells trigger inflammatory bystander responses in human umbilical vein endothelial cells through the p38 pathway. Radiat Res. 2014 Jul;182(1):111-21.
9. Zhang G, Wong YH, Zhang Y, He LS, Xu Y, Qian PY. . Nitric oxide inhibits larval settlement in Amphibalanus amphitrite cyprids by repressing muscle locomotion and molting. Proteomics. 2015 Nov;15(22):3854-64.
10. Guo Y, Deng Y, Huang Z, Luo Q, Peng Y, Chen J, Jiang H, Ye J, Li J. . EBP50 induces apoptosis in macrophages by upregulating nitric oxide production to eliminate intracellular Mycobacterium tuberculosis. SCI REP-UK. 2016 Jan 5;6:18961.
11. Zhou L, Zhang H, Wu J. . Effects of nitric oxide on the biological behavior of HepG2 human hepatocellular carcinoma cells. Exp Ther Med. 2016 May;11(5):1875-1880.

12. Zhao W, Wu C, Chen X. . Cryptotanshinone inhibits oxidized LDL-induced adhesion molecule expression via ROS dependent NF- κ B pathways. CELL ADHES MIGR. 2016 May 3;10(3):248-58.
13. Shen J, Tian Y, Li Y, Ma R, Zhang Q, Zhang J, Fang J. . Bactericidal Effects against S. aureus and Physicochemical Properties of Plasma Activated SCI REP-UK. 2016 Jun 27;6:28505.
14. Zhang G, Yan GY, Yang XX, Wong YH, Sun J, Zhang Y, He LS, Xu Y, Qian PY. . Characterization of Arginine Kinase in the Barnacle Amphibalanus Amphitrite and Its Role in the Larval Settlement. J Exp Zool B Mol Dev Evol. 2016 Jun;326(4):237-49.
15. Wu KW, Kou ZW, Mo JL, Deng XX, Sun FY. . Neurovascular coupling protects neurons against hypoxic injury via inhibition of potassium currents by generation of nitric oxide in direct neuron and endothelium cocultures. Neuroscience. 2016 Oct 15;334:275-282.
16. Ji YY, Ma YJ, Wang JW. . Cytoprotective role of nitric oxide in HepG2 cell apoptosis induced by hypocrellin B photodynamic treatment. J PHOTOCH PHOTOBIO B. 2016 Oct;163:366-73.
17. Zhai L, Xiao D, Sun C, Wu T, Han Z, Zhang X, Xu X, Wang Y. . Nitric oxide signaling is involved in the response to iron deficiency in the woody PLANT PHYSIOL BIOCH. 2016 Dec;109:515-524.
18. Bai W, Zhou J, Zhou N, Liu Q, Cui J, Zou W, Zhang W. . Hypoxia-increased RAGE expression regulates chemotaxis and pro-inflammatory cytokines release through nuclear translocation of NF- κ B and HIF1 α in THP-1 cells. BIOCHEM BIOPH RES CO. 2018 Jan 15;495(3):2282-2288.
19. Jin L, Cao Y, Zhang T, Wang P, Ji D, Liu X, Shi H, Hua L, Yu R, Gao S. . Effects of ERK1/2 S-nitrosylation on ERK1/2 phosphorylation and cell survival in glioma cells. Int J Mol Med. 2018 Mar;41(3):1339-1348.
20. Li J, Han G, Ma M, Wei G, Shi X, Guo Z, Li T, Meng H, Cao Y, Liu X. . Xanthan Gum Ameliorates Osteoarthritis and Mitigates Cartilage Degradation via Regulation of the Wnt3a/ β -Catenin Signaling Pathway. MED SCI MONITOR. 2019 Oct 6 25:7488-7498.
21. Yang-Jian Qi, Zheng Fang, Zhong Ren, Juan-Li Wu, Lei Guo, Hong Tan, Man-Li Huang, Yi Shen, Ai-Min Bao. . Rapid membrane effect of estrogens on stimulation of corticotropin-releasing hormone Psychoneuroendocrinology. 2020 Jul;117:104680.

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