

## Phosphatase Inhibitor Cocktail II (100× DMSO)

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature  
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

### Biological Description

Description

It is easy for the proteins to be degraded or dephosphorylated during in vitro extraction procedure, which could cause an inaccurate result of protein expression detection. Therefore, adding protease inhibitors or phosphatase inhibitors into the extracts would be an effective method to prevent degradation and dephosphorylation of protein. The phosphatase inhibitor mixture can effectively inhibit the dephosphorylation of common phosphatases on proteins and maintain the original phosphorylation state of proteins.

### Reference

- Li Y, Xu J, Guo X, et al. The collateral activity of RfxCas13d can induce lethality in a RfxCas13d knock-in mouse model. *Genome Biology*. 2023, 24(1): 20.
- Wang L, Deng K, Gong L, et al. Chlorquinaldol targets the  $\beta$ -catenin and T-cell factor 4 complex and exerts anti-colorectal cancer activity. *Pharmacological Research*. 2020: 104955.
- Xu X, Yu Y, Zhang W, et al. SHP-1 inhibition targets leukaemia stem cells to restore immunosurveillance and enhance chemosensitivity by metabolic reprogramming. *Nature Cell Biology*. 2024: 1-14.
- Feng Z, Yin J, Zhang Z, et al. O-GlcNAcylation of E3 ubiquitin ligase SKP2 promotes hepatocellular carcinoma proliferation. *Oncogene*. 2024: 1-11.
- Liu S, Zhang X, Yao X, et al. Mammalian IRE1 $\alpha$  dynamically and functionally coalesces with stress granules. *Nature Cell Biology*. 2024: 1-15.
- Liu T, Yin H, Hu Q, et al. Small Molecule Compound DHPA Screened by Computer-Aided Drug Design and Molecular Dynamics Simulation Inhibits Neuroblastoma Cell Proliferation by Targeting TrkB. *ACS Omega*. 2024
- Weng J, Wu S, Pan Y, et al. PH-sensitive adriamycin hydrochloride and oxaliplatin dual-loaded microspheres synergistically enhance local injections effect of hepatocellular carcinoma. *Materials Today Bio*. 2024: 101311.
- Sun H, Pang X, Li J R, et al. Isoechinulin B, a natural product from Antarctic fungus, attenuates acute liver injury by inhibiting excessive cell adhesion. *European Journal of Pharmacology*. 2024: 177065.
- Hydrophobicity causes anomalous migration of cystine/glutamate antiporter SLC7A11 in SDS-PAGE with low acrylamide concentration
- Li B, Yang T, Liu J, et al. Genetically engineered PD-1 displaying nanovesicles for synergistic checkpoint blockades and chemo-metabolic therapy against non-small cell lung cancer. *Acta Biomaterialia*. 2023, 161: 184-200.
- Li J, Dang P, Li Z, et al. Peroxisomal ERK mediates Akh/glucagon action and glycemic control. *Cell Reports*. 2023, 42 (10).
- Wu K, Zhang Y, Liu Y, et al. Phosphorylation of UHRF2 affects malignant phenotypes of HCC and HBV replication by blocking DHX9 ubiquitylation. *Cell Death Discovery*. 2023, 9(1): 27.
- Li W, Liang J, Li S, et al. The CXCL12-CXCR4-NLRP3 axis promotes Schwann cell pyroptosis and sciatic nerve demyelination in rats. *Clinical and Experimental Immunology*. 2023: uxad081.
- Tang H, Guo J, Sang B, et al. PDGFR $\beta$  Modulates Aerobic Glycolysis in Osteosarcoma HOS Cells via the PI3K/AKT/mTOR/c-Myc Pathway. *Biochemistry and Cell Biology*. 2021 (ja).
- Zhang Y, Zhang J, Chen Y, et al. The ORF8 Protein of SARS-CoV-2 Mediates Immune Evasion through Potently Downregulating MHC-I. *Proceedings of the National Academy of Sciences*. 2021, 118(23).
- Wang W, Luo X, Zhang Q, et al. Bifidobacterium infantis Relieves Allergic Asthma in Mice by Regulating Th1/Th2. *Medical Science Monitor: International Medical Journal of Experimental and Clinical Research*. 2020, 26: e920583-1.
- Tong Y, Liu L, Wang R, et al. Berberine Attenuates Chronic Atrophic Gastritis Induced by MNNG and Its Potential Mechanism. *Frontiers in Pharmacology*. 2021, 12: 382

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

**This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use**

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