

Product No. 04080

Protease Inhibitor Cocktail for General Use(100X)

The product is a mixture of several inhibitors to protect valuable proteins from proteolysis. Nacalai Tesque offers different types of Protease Inhibitor Cocktails (Protease Inhibitor Cocktail for Use with Mammalian Cell and Tissue Extracts, EDTA free (100X), for General Use (100X)). We recommend the Protease Inhibitor Cocktail for General Use (100X) as first choice.

Features

- The product contains 5 kinds of protease inhibitors for different targets.
- The product is 100 times concentrated stock solution. Dilute with any buffer of your choice.

Composition

The product (100 times concentrated stock solution) contains:

- 50mmol/l 4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride
- 15 μ mol/l Aprotinin from bovine lung
- 100 μ mol/l E-64
- 100 μ mol/l Leupeptin hemisulfate monohydrate
- 50mmol/l Disodium dihydrogen ethylenediaminetetraacetate dihydrate

Protocol

1. Dissolve the powdered product by adding 1 ml deionized water into the bottle to make the 100 times concentrated stock solution.
2. Dilute with your choice of buffer to make 100 ml of 1X protease inhibitor solution.

Target Proteases

Protease Inhibitor	Target Protease
4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride	Serine protease
Aprotinin from bovine lung	Serine protease, Esterase
E-64	Cysteine protease
Leupeptin hemisulfate monohydrate	Cysteine protease, Trypsin-like protease
Disodium dihydrogen ethylenediaminetetraacetate dihydrate	Metalloprotease

Caution

- In case of very high protease concentration, use higher concentration of the product (dilute only up to between 50 and 20 times).
- Keep the inhibitor cocktail stock solution in freezer, and use it within 3 months.

Storage

Freezer

Expiration

For powder in unopened bottle: two years from manufacturing. Expiration date is stated on the product label (Exp. yy / mm)

Packing

- 1ml (Product No.04080-24) (Powder in 1 bottle to make 1 ml stock solution each.)
- 1ml \times 5 bottles (Product No.04080-11) (Powder in 5 bottles to make 1 ml stock solution each.)