**Protease Inhibitor Cocktail , EDTA-free (100X)**

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**Technical literature is available at:** [**www.mesgenbio.com**](http://www.mesgenbio.com)**. E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com**

***Catalog Number : MG2284 Lot Number : Refer to vial***

***Package : □ 1.0mL □ 10X1.0mL***

***Application***

*EDTA-free mixture of several protease inhibitors that inhibit cysteine and serine, but not metalloproteases.*

***Background***

*Protease Inhibitor Cocktail, EDTA-free (100X) are ready-to-use concentrated stock DMSO solutions of protease inhibitors for addition to samples to prevent proteolytic degradation during cell lysis and protein extraction. Each component has specific inhibitory properties. AEBSF and Aprotinin act to inhibit serine proteases, including trypsin, chymotrypsin, and plasmin amongst others. Bestatin inhibits aminpeptidases. E-64 acts against cystein proteases. Leupeptin acts against both serine and cystein proteases. Pepstatin A inhibits acid proteases.*

***Cocktail component***

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| --- | --- | --- | --- |
| *Name* | *CAS* | *Concentration* | *Target proteases* |
| *AEBSF* | *30827-99-7* | *100 mM* | *Serine proteases* |
| *Aprotinin* | *9087-70-1* | *80 μM* | *Serine proteases* |
| *Bestatin/Ubenimex* | *58970-76-6* | *5 mM* | *Aminopeptidases* |
| *E64* | *66701-25-5* | *1.5 mM* | *Cysteine proteases* |
| *Pepstatin A* | *26305-03-3* | *1.0mM* | *Aspartic proteases* |
| *Leupeptin* | *103476-89-7* | *2 mM* | *Serine and cysteine proteases* |

***Procedure***

*1. Equilibrate the tube to room temperature. Vortex the tube before use to ensure a homogeneous suspension.*

*2. Add Protease Inhibitor Cocktail at 10μL/mL directly to the lysis buffer or cell extract to produce a 1X final concentration.*

***Storage***

***-20°C***

***For Research Use Only. Not For Use In Diagnostic Procedures.***