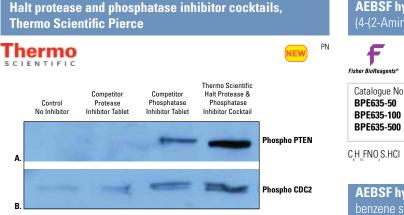
Protein Purification Purification reagents - Protease inhibitors



Thermo Scientific Halt Protease and Phosphatase Inhibitor Cocktail preserves phosphorylation of phosphorylated PTEN and CDC2 in HeLa cell lysate more effectively than tablet-format phosphatase inhibitor cocktail. HeLa cells were serum starved for 24hr. Serum-containing media was added to the cells for 15min and cells were lysed with Thermo Scientific M-PER* Mammalian Protein Extraction Reagent in the presence or absence of 1X inhibitor cocktail. Tablets were dissolved in 1mL of buffer and then diluted 1:100 into the lysis reagent. The Halt Protease and Phosphatase Inhibitor Cocktail was added directly to the lysis reagent. Lysates were analysed by Western blot for preservation of protein phosphorylation using the antibodies indicated. Panel A. Phosphorylated PTEN, Panel B. Phosphorylated CDC2. The antibodies recognise phosphorylation on serine and tyrosine, respectively.

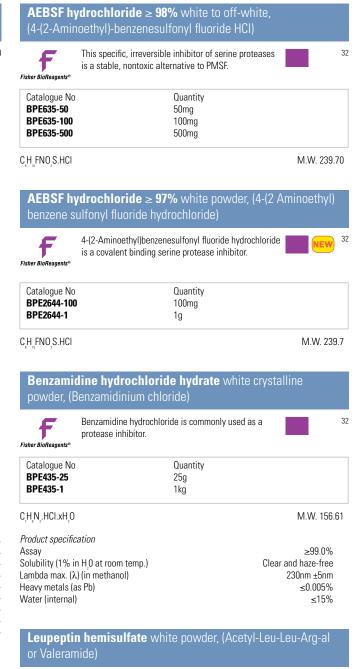
Complete protection from proteases and phosphatases in one reliable cocktail. This broad spectrum inhibitor cocktail is specifically optimised to protect proteins from degradation during extraction and purification.

- Immediate inhibition no need to thaw, open multiple tubes or wait for tablets to dissolve
- Compatible with Thermo Scientific Pierce cell lysis buffers
- MS-compatible because it does not contain AEBSF which can cause peaks to shift

The cocktail contains inhibitors against the major classes of proteases and phosphatases. To promote the inhibition of metalloproteases 0.5M EDTA is provided in a separate tube.

Inhibitor	Target	
Sodium fluoride	Ser/Thr and acidic phosphatases	
Sodium orthovanadate	Tyr and alkaline phosphatases	
β-glycerophosphate	Ser/Thr phosphatases	
Sodium pyrophosphate	Ser/Thr phosphatases	
Aprotinin	Ser proteases	
Bestatin	Amino-peptidases	
E64	Cysteine proteases	
Leupeptin	Ser/Cys proteases	
EDTA (optional)	Metalloproteases	

Catalogue No	Description	Quantity
PN78440	Halt protease and phosphatase inhibitor cocktail (100X)	1mL
PN78441	Halt protease and phosphatase inhibitor cocktail, EDTA-free (100X)	1mL
PN78442	Halt protease and phosphatase single-use inhibitor cocktail (100X)	24 x 100µL
PN78443	Halt protease and phosphatase inhibitor single-use cocktail, EDTA-free (100X)	24 x 100µL
PN78444	Halt protease and phosphatase inhibitor cocktail (100X)	5 x 1mL
PN78445	Halt protease and phosphatase inhibitor cocktail, EDTA-free (100X)	5 x 1mL
PN78446	Halt protease and phosphatase inhibitor cocktail (100X)	10mL
PN78447	Halt protease and phosphatase inhibitor cocktail, EDTA-free (100X)	10mL





Leupeptin hemisulfate is a biochemical used as an inhibitor for trypsin, plasmin, papain, and cathepsin B.

Catalogue No	Quantity	
BPE2662-1	1mg	
BPE2662-5	5mg	
BPE2662-25	25mg	
BPE2662-100	100mg	

 $C_{20}H_{30}N_{6}O_{4}.1/2H_{2}SO_{4}$

M.W. 475.60

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NEW

$\label{eq:phenylmethylsulfonyl fluoride} \ensuremath{\left(\alpha\text{-Toluenesulfonyl fluoride, PMSF}\right)} \\$

F	Serine-protease inhibitor. Less hazardous than diisopropyl fluorophosphate.
Catalogue No P/2805/44	Quantity 5g

M.W. 174.19

 $\mathsf{C}_{_{\scriptscriptstyle{5}}}\mathsf{H}_{_{\scriptscriptstyle{5}}}\mathsf{C}\mathsf{H}_{_{\scriptscriptstyle{2}}}\mathsf{S}\mathsf{O}_{_{\scriptscriptstyle{2}}}\mathsf{F}$