Δ				
	Protease	Positional Specificity	Amino Acid Specificity	<b>Re f</b>
	Cathepsin A	Carboxypeptidase	Removes hydrophobic amino acids (e.g. Phe and Leu) from the C-terminus of substrates when additional hydrophobic	
			amino acids are present in P1	
	Cathepsin B	Dipeptidyl	Removes dipeptides from the C-terminus when either	26
		carboxypeptidase	positively charged (Arg, Lys) or hydrophobic amino acids are	
	Cothonsin C	Din antidad	in the P1 and P2 position Removes dipeptides from the N-terminus with broad	8
i	Cathepsin C	Dipeptidyl aminopeptidase	specificity	
	Cathepsin D	Endopeptidase	Cleaves between hydrophobic amino acids (e.g. Phe, Leu,	27
	Cathepsin B	Litaopeptidase	Tyr)	
R		C	D	
	— Catheps	sin A ———		
6 —	1 1	50	n = 209	
	1 1	40		\ /
4 —	1 1	30	25	<b>\/</b> \/
			- Feby	$X \wedge$
2 —		20		
		10		
0 —		0	-25 P4 P3 P2 P1 P1' P2'	P3' P4'
	— Catheps	sin B ———		
6			n = 151	
		60	40	\/\/
4	•••		20	Y X
		40		$\langle / \rangle / \rangle$
2	.123352 .113362	20		
(en		b	© −20	•
ival o	•	0	P4 P3 P2 P1 P1' P2'	P3' P4'
-log10(p.adj value)	— Catheps	sin C —		
9)01 6 —	i i	50	$\frac{1}{2}$ $n = 74$	
log1	1 1	40	<u> </u>	
4 —		30	<u>š</u> 40	
		•	20	``
2 —	1 1 1	20		<b>K</b>
		10		$\times \times$
0 —		0	-20 P4 P3 P2 P1 P1' P2'	P3' P4'
	<ul><li>Catheps</li></ul>	in D	F4 F3 F2 F1 F1 F2	
6		20	n = 91	
	+ + +	20	11 = 91	
4	1 1	15	40	
	1 1°	10		
2	1 00 10 0	di decima.		
		5		$\nabla \nabla$
0		0	-20	
-1		10 20	5 10 P4 P3 P2 P1 P1' P2'	P3' P4'
	Log2 (Time	I X/ I U)	cleavage_pos	·
	Time (minutes)  Chemistry			
				t Terminus
	<b>1</b> 5	<b>30 60</b>	90 Basic Neutral Pola	ar