

Figure 1

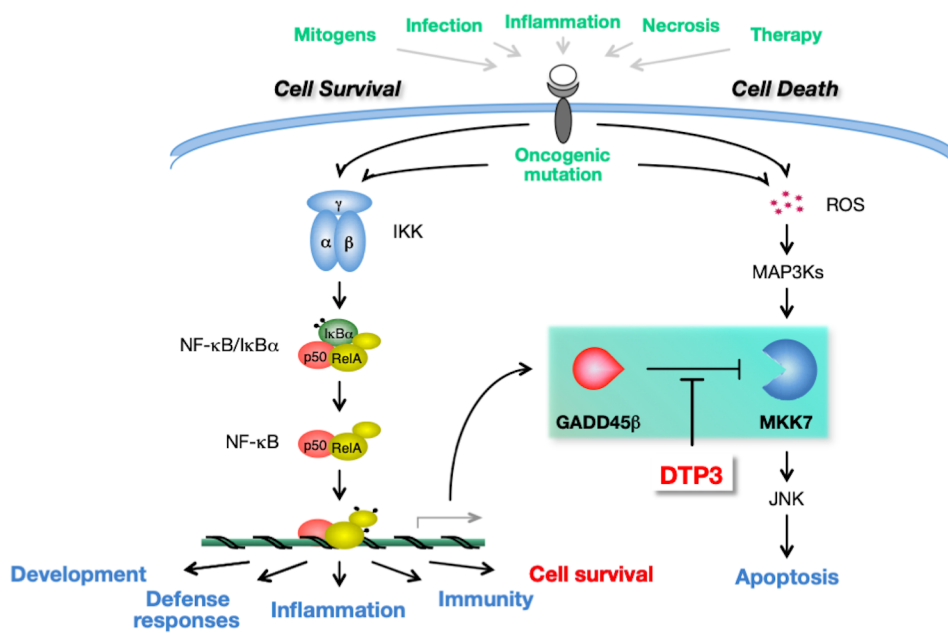


Figure 2

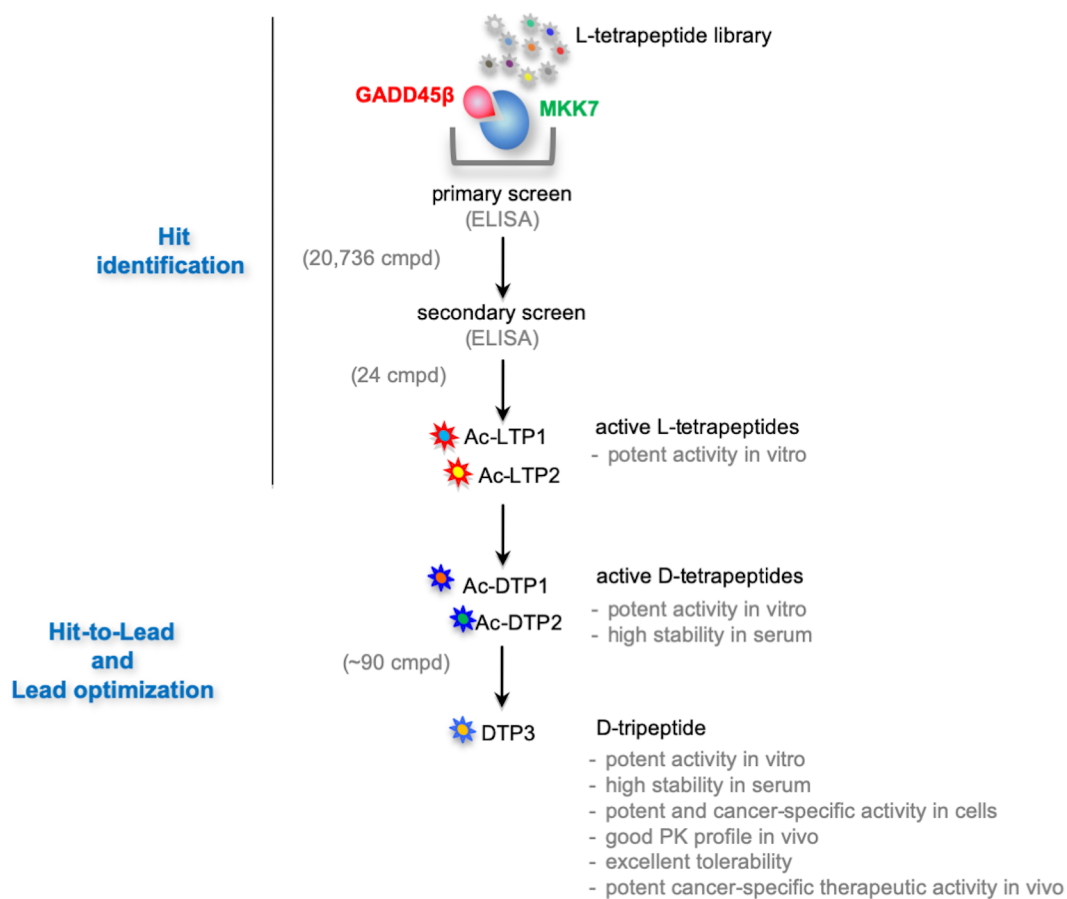


Table 1: Related to Figure 2. Properties of “Amino acidic Building blocks” used in the library design

Selected Amino Acid	Side chain	Side chain properties		
		polar	neutral	Amide
Glutamine	$-\text{CH}_2\text{CH}_2\text{CONH}_2$	polar	neutral	Amide
Serine	$-\text{CH}_2\text{OH}$	polar	neutral	Hydrophobic
Arginine	$-(\text{CH}_2)_3\text{NHC}(\text{NH})\text{NH}_2$	polar	Basic (strongly)	
Alanine	$-\text{CH}_3$	Non polar	neutral	Hydrophobic
Tyrosine	$-\text{CH}_2-\text{C}_6\text{H}_4\text{OH}$	polar	neutral	Aromatic
Proline	$-\text{CH}_2\text{CH}_2\text{CH}_2$	Non polar	neutral	Hydrophobic
Methionine	$-\text{CH}_2\text{CH}_2\text{SCH}_3$	Non polar	neutral	Hydrophobic
Cysteine	$-\text{CH}_2\text{SH}$	Non polar	neutral	-
Phenylalanine	$-\text{CH}_2\text{C}_6\text{H}_5$	Non polar	neutral	Aromatic
Leucine	$-\text{CH}_2\text{CH}(\text{CH}_3)_2$	Non polar	Neutral	Aliphatic
Histidine	$-\text{CH}_2-\text{C}_3\text{H}_3\text{N}_2$	polar	Basic (weakly)	Aromatic
Aspartic acid	$-\text{CH}_2\text{COOH}$	polar	acidic	-