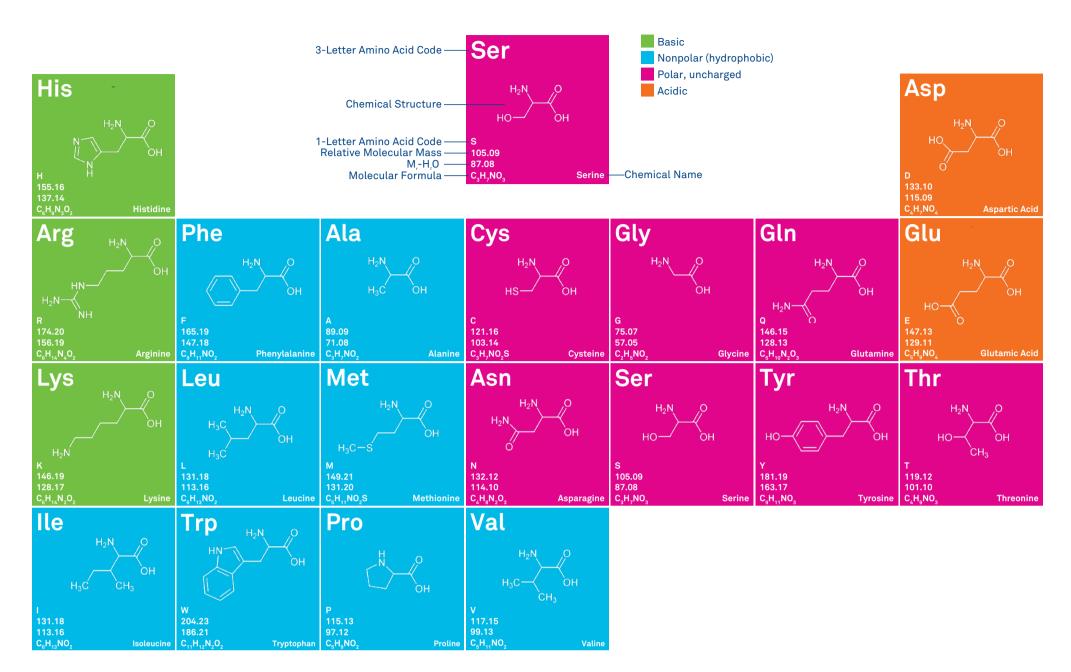
PERIODIC CHART OF AMINO ACIDS

APIS ■ PEPTIDES ■ BUILDING BLOCKS ■ BIOCHEMICALS ■ CUSTOM SYNTHESIS ■ OLIGONUCLEOTIDES



Common Fmoc-Strategy SPPS* Protecting Groups

Fmoc

Trt Trityl

tBu t-Butyl

 $M_r = 57.12$

carbonyl $M_r = 223.25$

9-Fluorenylmethyloxy

Absorption and Emission Characteristics of Chromophores and Fluorophores

FLUOROPHORE	Excitation Wavelength	Emission Wavelength		
Abz (2-Aminobenzoyl or Anthraniloyl)	320 nm	420 nm	Boc t-Butyloxycarbonyl M _r = 101.13	$H_3C \xrightarrow{CH_3} O$
N-Me-Abz (N-Methyl-anthraniloyl)	340 - 360 nm	440 - 450 nm		
AFC (7-Amido-4-trifluoromethylcoumarin)	395 - 400 nm	495 - 505 nm	Tos Tosyl M _r = 155.20	H ₃ C — S O I O O O O O O O O
AMC (7-Amido-4-methylcoumarin)	360 - 380 nm	440 - 460 nm		
Dansyl (5-(Dimethylamino)naphthalene-1- sulfonyl)	342 nm	562 nm		
EDANS (5-[(2-Aminoethyl)amino] naphthalene 1-sulfonic acid)	340 nm -	490 nm	Mbzl 4-Methylbenzyl M _r = 105.16	H ₃ C
FITC (Fluorescein isothiocyanate)	490 nm	520 nm		
Mca ((7-Methoxycoumarin-4-yl)acetyl)	325 nm	392 nm	Bom Benzyloxymethyl M _r = 121.16	
4MβNA (4-Methoxy-β-naphthylamide)	335 - 350 nm	410 - 440 nm		
βNA (β-Naphthylamide)	320 - 340 nm	410 - 420 nm		
Trp (Tryptophan)	280 nm	360 nm	2-Chloro-Z 2-Chlorobenzyloxy-carbonyl M _r = 169.59	CI
CHROMOPHORE	Extinction Wavelength	Molar Extinction Coefficient		
pNA (p-Nitroanilide)	405 nm 410 nm	$\epsilon_{_{405\mathrm{nm}}}$ = 9450 M ⁻¹ cm ⁻¹ $\epsilon_{_{410\mathrm{nm}}}$ = 8800 M ⁻¹ cm ⁻¹	For	0
Values listed are as reported in the literature	*CDDC - Colic	d Phase Pentide Synthesis	101	O II

*SPPS = Solid Phase Peptide Synthesis

Formyl $M_r = 29.02$

Pmc 2,2,5,7,8-Pentamethyl-chroman-6-sulfonyl $M_r = 267.37$ H_3C CH_3 $CH_$

2002899 published by Global Marketing Bachem AG, January 2021 © Copyright by Bachem AG, Switzerland. Reproduction forbidden without permission.

Values listed are as reported in the literature

Common Boc-Strategy SPPS* Protecting Groups