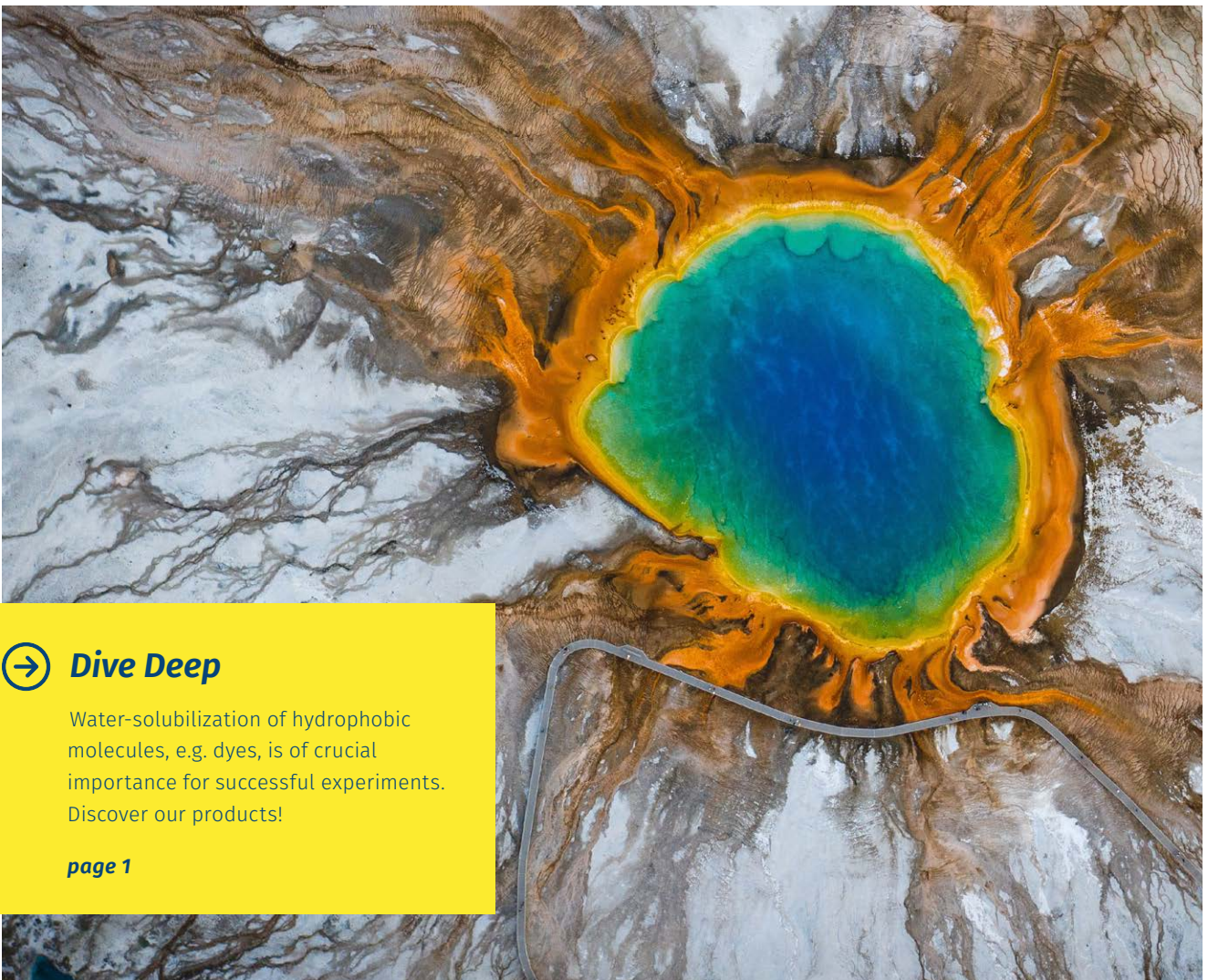




Iris
Biotech

α -SULFO- β -ALANINE



Dive Deep

Water-solubilization of hydrophobic molecules, e.g. dyes, is of crucial importance for successful experiments. Discover our products!

page 1

*Increased hydrophilicity
of hydrophobic dyes.*

page 1

*Improved solubility
in aqueous media.*

page 1

*Charge modification
for DNA sequencing.*

page 1



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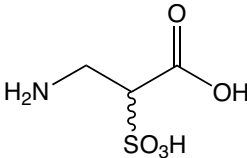

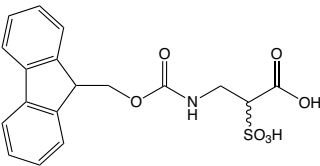

α -Sulfo- β -Alanine

α -Sulfo- β -alanine has been used to couple to hydrophobic labels like Cyanine and Rhodamine dyes and other hydrophobic residues to increase their solubility in water. As di- or tripeptide a further increase of hydrophilicity can be achieved. Fmoc- β -Ala(SO₃H)-OH can be coupled in SPPS by standard phosphonium- or uranium-based coupling reagents.

In high throughput technologies for DNA sequencing and genomics charge-modified dye-labelled dideoxynucleoside-5'-triphosphates were synthesized for "direct-load" applications in DNA.

→ Increasing Hydrophilicity of Hydrophobic Dyes

→ Charge Modification for DNA Sequencing

		Product details	
HAA1860	H-beta-Ala(SO₃H)-OH		
(SR)-3-Amino-2-sulfo-propanoic acid			
CAS-No.	15924-28-4		
Formula	C ₃ H ₇ NO ₅ S		
Mol. weight	169,16 g/mol		
FAA1915	Fmoc-beta-Ala(SO₃H)-OH		
(SR)-3-(9-Fluorenylmethyloxycarbonylamino)-2-sulfo-propanoic acid			
CAS-No.	1005412-03-2		
Formula	C ₁₈ H ₁₇ NO ₅ S		
Mol. weight	391,4 g/mol		

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