

# Isolation/Modification/Labeling

## Organic synthesis (Peptides & Oligonucleotides)

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This section presents only specific synthesis building blocks reagents answering the emerging needs in organic synthesis of peptides as well as oligonucleotides: PEO linkers, innovative hydrazone chemistry reagents, and some quencher's reagents.

#### Synthesis Resins :

- ◆ Chlorotrityl Resins
- ◆ Trityl Resins
- ◆ Fmoc-Rink Amide MBHA Resins
- ◆ Highly Substituted Resins
- ◆ HMP Resins
- ◆ MAPS Resins
- ◆ PAM Resins
- ◆ Sieber Resins
- ◆ TentaGel Resins
- ◆ Wang Resins
- ◆ AFC, AMC, and pNA Resins

Please inquire for other conventional synthesis agents:

- ◆ Coupling Reagents
- ◆ Biotin Reagents Building Blocks
- ◆ Miscellaneous Reagents
- ◆ Fmoc Amino Acids
- ◆ Fmoc Unusual Fmoc Amino Acids
- ◆ Boc Amino Acids
- ◆ Boc Unusual Fmoc Amino Acids
- ◆ Amino Acids Cartridges for ABI Synthesizers

### Hydrazone chemistry reagents for organic synthesis

Following are several reagents for the peptide synthesis using the hydrazone chemistry. See pages B31, B14 for the hydrazone method and applications.

Description	MW	Cat.#	Qty
6-FMOC-HNA	375.2	BL9740	100 mg
6-FMOC-hydrazinonicotinic acid		BL9741	500 mg
Used to incorporate hydrazine moieties during solid or solution phase peptide synthesis.			
6-BOC-HNA	253.1	BL9750	100 mg
6-BOC-hydrazinonicotinic acid		BL9751	500 mg
Used to incorporate hydrazine moieties during solid or solution phase peptide synthesis.			
6-FMOC-HNA-Osu	472.2	BL9760	100 mg
Succinimidyl 6-FMOC-hydrazinonicotinate		BL9761	500 mg
Used to incorporate hydrazine moieties during solid or solution phase peptide synthesis.			
6-BOC-HNA-OSu	350.3	BL9770	100 mg
Succinimidyl 6-BOC-hydrazinonicotinate		BL9771	500 mg
Used to incorporate hydrazine moieties during solid or solution phase peptide synthesis.			
C6-HNAA	306.4	BL9780	100 mg
6-hydrazinonicotinic acid acetone hydrazone		BL9781	500 mg
Used to incorporate protected hydrazine moieties with extended six carbon linker during solid or solution phase peptide synthesis			
HNA 6-Hydrazinonicotinic Acid	153.1	BL9790	100 mg
Precursor molecule.			
BOC-HTA	280.3	BL9810	100 mg
(4-BOC-hydrazido) terephthalic acid		BL9811	500 mg
Precursor molecule.			
BOC-HTA-OSu	377.4	BL9820	100 mg
Succinimidyl 4-BOC-hydrazido) terephthalate		BL9821	500 mg
Precursor molecule.			

### PEO Linkers and Biotin Building blocks for organic synthesis

See the complete list of crosslinkers pages B16-B18.

### Labeling agents for organic synthesis (nucleic acids) \_\_\_\_\_

Biotin and fluorescent labeled oligonucleotides have great applications in DNA sequencing and amplification, as well as genetic analysis techniques. **Phosphoramidite** is a new privileged method for fluorescein labeling of 5'-end terminus synthesis. This is available with conventional dyes, including 5'-Fluorescein, as well as with HEX and TET. Phosphoramidites are widely used and designed to take advantage of the multicolor detection capability of modern DNA sequencers and genetic analyzers. Now, phosphoramidite active dyes are available with our superior IR FluoProbes®780 dye!

Note : Other nucleic acids labeling methods include amino labeling (fluorophores are presented by fluorophore type in page B56 (FluoProbes), pages B61-B84 (conventionals : FAM, Rhodamines, Coumarins...), and page B85 (quenchers).

#### FAM-PA

MW : 843.96

Soluble in acetonitrile (MeCN)

$\lambda_{abs.}/\lambda_{em.}$  : 494/525 nm

Fluorescein phosphoramidite contains no 4,4'-dimethoxytrityl (DMTr) group and can be added only once at the 5'-terminus, thereby synthesis is over. This product is prepared using the 6-carboxyfluorescein isomer with a straight 6 carbon linker. Therefore only one fluorescein-oligo peak is detected by reverse-phase HPLC.

Description	Cat.#	Qty
5-FAM-PA 5'-Fluorescein Phosphoramidite	FP-F19661	50 $\mu$ mol

#### TET-PA

MW : 981.74

Soluble in acetonitrile (MeCN)

$\lambda_{abs.}/\lambda_{em.}$  : 521/536 nm

Designed and widely used to take advantage of the multicolour detection capability of modern DNA sequencers and genetic analysers.

Description	Cat.#	Qty
TET-PA 5'-Tetrachloro-Fluorescein Phosphoramidite	FP-F19681	50 $\mu$ mol

#### HEX-PA

MW : 1050.63

Soluble in acetonitrile (MeCN)

$\lambda_{abs.}/\lambda_{em.}$  : 535/556 nm

Description	Cat.#	Qty
HEX-PA 5'-Hexachloro-Fluorescein Phosphoramidite	FP-F19671	50 $\mu$ mol

#### FluoProbes®-780-Phosphoramidite

$\lambda_{abs.}/\lambda_{em.}$  : 780/792 nm

Description	Cat.#	Qty
FluoProbes®-780-Phosphoramidite	FP-F19281	50 mg

### Quencher agents for organic synthesis

Building block	MW	exc./abs.	Cat.#	Qty
FMOC-Lys(DABCYL)-OH	619.73	428 nm/none	FP-AY7540	100 mg
t-BOC-Lys(DABCYL)-OH	497.6	428 nm/none	FP-AY7510	100 mg
FMOC-Lys(DABCYL) resin	N/A	428 nm/none	FP-AY7620	100 mg
DABSYL chloride	323.8	466 nm/none	FP-19195B	1 g
DABSYL hydrazine	319.39	466 nm/none	FP-AY7720	100 mg
t-BOC-Asp(EDANS)-OH	481.52	341/470 nm	FP-AY7490	100 mg
t-BOC-Glu(EDANS)-OH	495.55	341/470 nm	FP-AY7500	100 mg
FMOC-Asp(EDANS)-OH	603.6	341/470 nm	FP-AY7520	100 mg
FMOC-Glu(EDANS)-OH	617.6	341/470 nm	FP-AY7530	100 mg

