

MOLECULAR TARGETING TECHNOLOGIES, INC.

Cyanine Dyes and Cyanine Dye Building Blocks

Cyanine dyes exhibit large molar absorptivities (~150,000-250,000 M⁻¹cm⁻¹) and moderate quantum yields resulting in extremely bright fluorescence signals. Therefore, cyanines have proven useful in several fields including photography, biology, laser technology and analytical chemistry.

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MTTI offers a series of unique lipophilic cyanine dyes which may be useful for biophysical studies of lipid bilayers of cells or other artifical membranes. In particular, these compounds may be useful as molecular probes of membrane potential, for labeling lipid bilayers and for labeling hydrophobic pockets of lipo-proteins.

MTTI also offers functionalized cyanines which can be coupled to biomolecules of interest to allow in vitro or in vivo imaging studies of the fluorescently labeled biomolecule.

In addition, several substituted indole derivatives are available which can be used as building blocks for the construction of new cyanine dye derivatives for use in the aforementioned fields.

CYANINE DYE PRODUCT LIST

Custom Cyanine Dyes Also Prepared!

Catalog #	Structure/Name	Formula/MW	Size	Price		
CN-1001	$ \begin{array}{c} $	C ₃₁ H ₃₉ IN ₂ 566.6	1 mg	\$119.00		
CN-1002	$ \begin{array}{c c} & & & \\ &$	C ₃₄ H ₄₅ IN ₂ 608.6	1 mg	\$119.00		
CN-1003	$\bigcup_{\substack{N + \\ C_{10}H_{21}}}^{N + } \prod_{\substack{r \\ C_{3}H_{7}}}^{N + } DiI C_{10,3}(5)$	C ₃₈ H ₅₃ IN ₂ 664.7	1 mg	\$119.00		
CN-1004	$ \begin{array}{c cccc} & & & & \\ & & & & \\ & & & & \\ & & & &$	C ₄₁ H ₅₉ IN ₂ 706.8	1 mg	\$119.00		
CN-1005	Dil C _{14,3} (5) $N + I^{-} + C_{3}H_{7}$	C ₄₂ H ₆₁ IN ₂ 720.8	1 mg	\$119.00		
See reverse for more products						



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Catalog #	Structure/Name	Formula/MW	Size	Price
CN-1006	$DiI C_{20}(3)$	C ₆₀ H ₁₀₅ ClN ₂ O ₄ 953.9	1 mg	\$119.00
CN-1007	$DiI C_{22}(3)$	C ₆₄ H ₁₁₃ ClN ₂ O ₄ 1010.0	1 mg	\$119.00
CN-1008	$\bigcup_{\substack{N \\ C_{22}H_{45}}}^{N + \Gamma} \bigcup_{\substack{I \\ C_{3}H_{7}}}^{N + \Gamma} DiI C_{22,3}(5)$	C ₅₀ H ₇₇ IN ₂ 833.1	1 mg	\$119.00
CN-1009	$\bigcup_{\substack{N \\ C_{22}H_{45}}}^{N + \Gamma} \bigcup_{\substack{L \\ C_{12}H_{25}}}^{N + \Gamma} DiI C_{22,12} (5)$	C ₅₉ H ₉₅ IN ₂ 959.3	1 mg	\$119.00
CN-1010	$DiI C_{22}(5)$	C ₆₉ H ₁₁₅ IN ₂ 1099.6	1 mg	\$119.00
CN-1011	$\bigcup_{\substack{N + \\ C_{28}H_{57}}}^{N + } \prod_{\substack{I \\ C_{28}H_{57}}}^{N + } DiI C_{28}(5)$	C ₈₁ H ₁₃₉ IN ₂ 1267.9	1 mg	\$119.00
CN-1012	$ \begin{array}{c} & & & \\ & &$	C ₆₅ H ₁₀₇ IN ₂ 1043.5	1 mg	\$119.00
CN-1013	$DiR = \begin{bmatrix} V & V \\ V & V \\ V \\ C_{18}H_{37} & C_{18}H_{37} \end{bmatrix}$	C ₆₃ H ₁₀₁ IN ₂ 1013.4	10 mg	\$165.00
CN-1014	$\begin{array}{c} \text{MeO} \\ & \downarrow \\ & \\ & SO_3^- \end{array} \begin{array}{c} \text{CI} \\ & \downarrow \\ & \downarrow \\ & \downarrow \\ & \downarrow \\ & \\ & \\ & \\ &$	C ₄₀ H ₅₁ ClN ₂ O ₈ S ₂ 787.4	1 mg	\$144.00
CN-1015	V V V V V V V V V V	$C_{21}H_{21}IN_{2}O_{2} \\ 460.3$	100 mg	\$144.00



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Catalog #	Structure/Name	Formula/MW	Size	Price
CN-1016		C ₅₁ H ₅₈ N ₄ S ₃ O ₉ 967.2	l mg	\$165.00
CN-1017	OTOH SO3- SO3- SO3- SO3H	C ₅₃ H ₅₆ N ₂ S ₃ O ₈ 945.2	1 mg	\$144.00
CN-1018	Cl H CO_2H CO_2H	C ₄₄ H ₄₄ BrClN ₂ O ₄ 780.2	1 mg	\$144.00
CN-1019	O = OH V = V N + V SO_3 SO_3H	C ₅₃ H ₅₆ N ₂ O ₈ S ₂ 913.2	l mg	\$144.00
IN-1001	HO ₂ C N 2,3,3-trimethyl-5-carboxy-3H-indole	C ₁₂ H ₁₃ NO ₂ 203.2	1 gram	\$170.00
IN-1002	2,3,3-trimethyl-5-phthalimidomethyl-3H-indole	C ₂₀ H ₁₈ N ₂ O ₂ 318.4	1 gram	\$170.00
IN-1003	HO ₃ S L 2,3,3-trimethyl-5-sulfo-3H-indole	C ₁₁ H ₁₃ NO ₃ S 239.3	1 gram	\$170.00

For further information or to place an order please contact Dr. Brian Gray by email: briangray@mtarget.com or phone: 610-738-7938

COMPANY PROFILE

Molecular Targeting Technologies, Inc. is a privately held US-based Biotechnology Company developing novel medical imaging products. MTTI has licensed fluorescence based technologies from PTI Research Inc. (PTIR), giving MTTI the worldwide rights to manufacture, sell and/or distribute PTIR's NeuroVue[®] and CellVue[®] product lines for *in vitro* and *in vivo* research applications.



CORPORATE HEADQUARTERS

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