



## MOLECULAR TARGETING TECHNOLOGIES, INC.

### Cyanine Dyes and Cyanine Dye Building Blocks

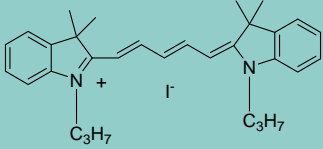
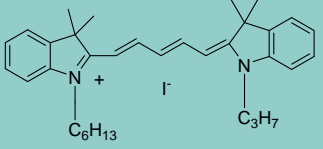
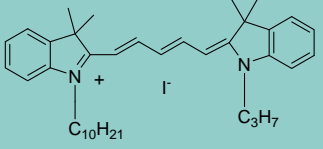
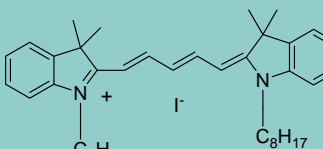
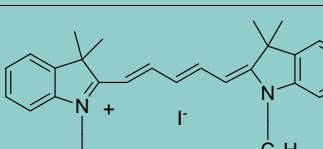
Cyanine dyes exhibit large molar absorptivities ( $\sim 150,000$ - $250,000 \text{ M}^{-1}\text{cm}^{-1}$ ) and moderate quantum yields resulting in extremely bright fluorescence signals. Therefore, cyanines have proven useful in several fields including photography, biology, laser technology and analytical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

MTTI offers a series of unique lipophilic cyanine dyes which may be useful for biophysical studies of lipid bilayers of cells or other artificial 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 several substituted indole derivatives 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

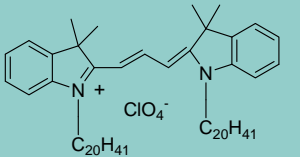
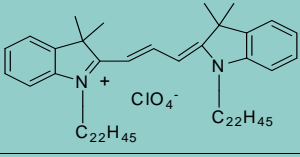
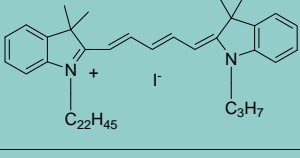
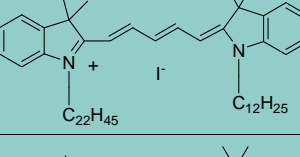
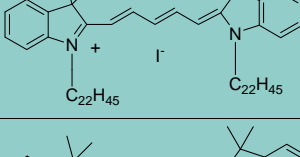
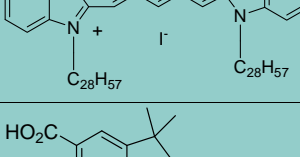
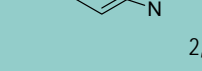
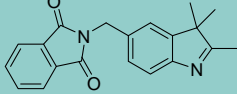
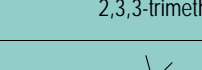
#### Custom Cyanine Dyes Also Prepared!

Catalog #	Structure/Name	Formula/MW	Size	Price
CN-1001	 DiI C <sub>3</sub> (5)	C <sub>31</sub> H <sub>39</sub> IN <sub>2</sub> 566.6	1 mg	\$112.50
CN-1002	 DiI C <sub>6,3</sub> (5)	C <sub>34</sub> H <sub>45</sub> IN <sub>2</sub> 608.6	1 mg	\$112.50
CN-1003	 DiI C <sub>10,3</sub> (5)	C <sub>38</sub> H <sub>53</sub> IN <sub>2</sub> 664.7	1 mg	\$112.50
CN-1004	 DiI C <sub>8</sub> (5)	C <sub>41</sub> H <sub>59</sub> IN <sub>2</sub> 706.8	1 mg	\$112.50
CN-1005	 DiI C <sub>14,3</sub> (5)	C <sub>42</sub> H <sub>61</sub> IN <sub>2</sub> 720.8	1 mg	\$112.50

See reverse for more products



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Catalog #	Structure/Name	Formula/MW	Size	Price
CN-1006	 DiI C <sub>20</sub> (3)	$C_{60}H_{105}ClN_2O_4$ 953.9	1 mg	\$112.50
CN-1007	 DiI C <sub>22</sub> (3)	$C_{64}H_{113}ClN_2O_4$ 1010.0	1 mg	\$112.50
CN-1008	 DiI C <sub>22,3</sub> (5)	$C_{50}H_{77}IN_2$ 833.1	1 mg	\$112.50
CN-1009	 DiI C <sub>22,12</sub> (5)	$C_{59}H_{95}IN_2$ 959.3	1 mg	\$112.50
CN-1010	 DiI C <sub>22</sub> (5)	$C_{69}H_{115}IN_2$ 1099.6	1 mg	\$112.50
CN-1011	 DiI C <sub>28</sub> (5)	$C_{81}H_{139}IN_2$ 1267.9	1 mg	\$112.50
IN-1001	 2,3,3-trimethyl-5-carboxy-3H-indole	$C_{12}H_{13}NO_2$ 203.2	1 gram	\$161.00
IN-1002	 2,3,3-trimethyl-5-phthalimidomethyl-3H-indole	$C_{20}H_{18}N_2O_2$ 318.4	1 gram	\$161.00
IN-1003	 2,3,3-trimethyl-5-sulfo-3H-indole	$C_{11}H_{13}NO_3S$ 239.3	1 gram	\$161.00

For further information or to place an order please contact Dr. Brian Gray by email: [briangray@mtarget.com](mailto: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. MTI has licensed fluorescence based technologies from PTI Research Inc. (PTIR), giving MTI 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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