



Tenova  
Pharma

Chemistry for Life Sciences

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**Product Name:**

NDB-TM

**Catalog Number:**

T01214

**Description:**

NBD-TM is a thiomorpholine-based fluorogenic probe for HOCl. NBD-TM proved to be the most rapid scavenger of HOCl when compared with boronate- and aminophenyl-based fluorogenic probes in a study for monitoring the chlorinating activity of Myeloperoxidase (MPO). Its high reactivity towards HOCl makes NBD-TM the probe of choice for HTS campaigns based on HOCl detection. Excitation maximum = 500 nm; emission maximum = 550 nm.

**Physical and Chemical Properties:**

Molecular Formula: C<sub>10</sub>H<sub>10</sub>N<sub>4</sub>O<sub>3</sub>S

Molecular Weight: 266.28

Physical Appearance: Brown solid

Purity: ≥95%

**Optical Properties:**

Abs/Em Maxima: 500/550nm.

**Solubility:**

DMSO, DMF.

**Storage:**

Store at -20°C and protected from light.

**Shelf Life:**

12 months after date of delivery.

**References:**

Zhu, H., Zhang, Z., Long, S., Du, J., Fan, J., & Peng, X. (2018). Synthesis of an ultrasensitive BODIPY-derived fluorescent probe for detecting HOCl in live cells. *Nature Protocols*, 13(10), 2348–2361. <https://doi.org/10.1038/s41596-018-0041-6>

**Caution:**

For Research Use Only.

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