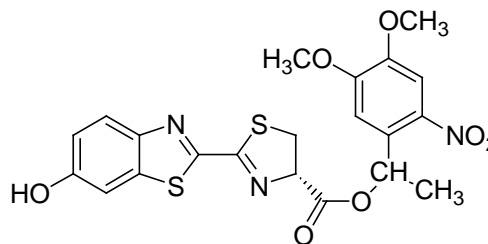


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: DMNPE-Caged D-Luciferin**CATALOG #:** 10103**MOLECULAR INFORMATION:** C₂₁H₁₉N₃O₇S₂
MW: 489.52**PROPERTIES:**

Color & Form	Yellow solid.
Purity	≥ 98% by TLC
Solubility	Readily soluble in DMF or DMSO.
Absorption/Emission	333nm
Extinction Coefficient	22,000

STORAGE AND HANDLING:

Store desiccated at -20 °C. Material is light sensitive. Protect from light at all time

APPLICATION:

DMNPE-caged D-luciferin is a D-luciferin ester derivative which can cross cell membranes efficiently.^{1,2} Once inside the cells, the ester is continuously hydrolyzed to a supply of D-luciferin. Alternatively a burst of D-luciferin is generated by UV photolysis.

Ref.: 1) *Antimicrobial Agents & Chemotherapy*, 1121(Apr-2001); 2) *Lett Appl Microbiol* **30**, 223(2000); 3) *Biotechniques* **15**, 848(1993).

TOXICITY:

Unknown.

FIRST AID:

Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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