PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: Biotin-4-fluorescein

CATALOG #: 90062

MOLECULAR INFORMATION:

- **Molecular Formula**: C_{33}H_{32}N_{4}O_{8}S
- **MW**: 644.7

PROPERTIES:

- **Color & Form**: Yellow solid
- **Purity**: ≥ 99% by HPLC
- **Solubility**: Soluble in DMSO, or pH>7 buffer
- **Absorption/Emission**: 494nm/523nm

STORAGE AND HANDLING:

- Store desiccated at ≤ 4 °C. Protect from light.

APPLICATION:

- Biotin-4-fluorescein has been reported to be a superior fluorescent biotin derivative for accurate measurement of avidin and streptavidin in crude biofluids. The biotin binding to avidin and streptavidin is high affinity, fast and non-cooperative. Also see Fluorescein biotin (80019).
  
  Ref.: 1) PNAS 102, 24, pp 8507 (2005); 2) Biochim Biophys Acta 1427, 33 (1999); 3) Biochim Biophys Acta 1427, 44 (1999).

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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