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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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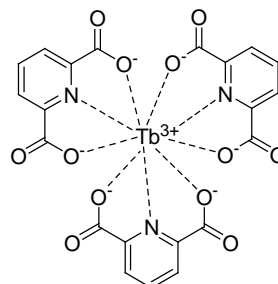
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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: DPA/Terbium for membrane fusion assay**CATALOG #** 80104**COMPONENT**
Component A: 1g DPA
Component B: 1g Terbium**MOLECULAR INFORMATION:**
MWt of DPA: 167.12
[499-83-2]
Mwt. of Terbium: 265.3
[13798-24-8]**PROPERTIES:****Color & Form**

Both DPA and Terbium are white solid.

SolubilityBoth components are readily soluble in H₂O.**Absorption/Emission** $\lambda_{\text{abs}} = 276\text{nm}$ (for complex); $\lambda_{\text{em}} 490$ and 545nm (for complex)**STORAGE AND HANDLING:**

Both components are stable at 4°C.

APPLICATION:

The principle of DPA/Tb³⁺ for vesicle fusion assay is based on the fact that contact of the chelator dipicolinic acid (DPA) with terbium (III) forms an instant Tb³⁺-DPA complex that is ~10,000 times more fluorescent than free Tb³⁺. In the assay, separate vesicle populations are loaded with 2.5 mM TbCl₃ in 50 mM sodium citrate, or 50 mM DPA in 20 mM NaCl. Fusion of the two types of vesicles results in fluorescence increase at 490 nm or 545 nm, with excitation at 276 nm.¹⁻⁴ Each set of product contains 1 g terbium trichloride and 1 g DPA in two separate vials. Please also see **SDIP/Europium for membrane fusion assay (#80105)**, which results in intense red fluorescence upon complex formation.

Ref.: 1) *Biochemistry* **19**, 6011(1980); 2) *Nature* **281**, 690(1979); 3) *Biochemistry* **33**, 5805(1994); 4) *J. Biol. Chem.* **269**, 14473(1994)

RELATED PRODUCTS *SDIP/Europium for membrane fusion assay(#80105)***TOXICITY:** Not established. Not listed by NTP, IARC or OSHA.

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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Disclaimer: <i>Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.</i>
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