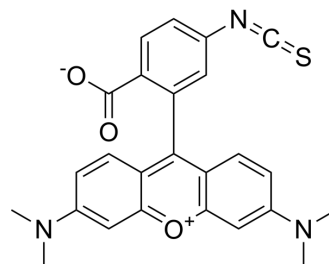


## 6-TRITC

<b>Cat. No.:</b>	HY-D0154
<b>CAS No.:</b>	80724-20-5
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	443.52
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	6-TRITC (Tetramethylrhodamine-6-isothiocyanate) is a potent fluorescent tracer. 6-TRITC can be used as a probe for haptenated proteins/peptides for the research of contact allergy. 6-TRITC can be used as a tracer for the confocal imaging in living cells <sup>[1][2]</sup> .
<b>In Vitro</b>	6-TRITC is relatively photostable and robust toward pH changes <sup>[1]</sup> . 6-TRITC as an extreme sensitizer induces a massive cell proliferation and gave an EC3 value of 0.92 mM (0.040%) in the murine LLNA (local lymph node assay) <sup>[1]</sup> . 6-TRITC (1.0 mg; 2h) can be used as a fluorescence probe for confocal imaging in Fe3O4@PDA incubated living cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Karlsson I, et al. Peptide Reactivity of Isothiocyanates--Implications for Skin Allergy. *Sci Rep*. 2016 Feb 17;6:21203.

[2]. Yue Q, et al. A versatile ethanol-mediated polymerization of dopamine for efficient surface modification and the construction of functional core-shell nanostructures. *J Mater Chem B*. 2013 Nov 28;1(44):6085-6093.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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