

## TRITC-dextran, MW 4000

<b>Cat. No.:</b>	HY-158082
<b>Molecular Weight:</b>	4000
<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.

TRITC-dextran, MW 4000

### BIOLOGICAL ACTIVITY

#### Description

TRITC-dextran MW 4000 (Tetramethyl rhodamine isothiocyanate glucan, MW 4000) is a fluorescent dye, with the molecular weight of 4 kD. TRITC-dextran MW 4000 exhibits an excitation wavelength of 555 nm. TRITC-dextran MW 4000 is vessel penetrate, which could label blood plasma to visualize the vasculature. TRITC-dextran MW 4000 is utilized in drug delivery for the stability of TRITC over a wide pH range (i.e. pH 2–11) and resistance to photo-bleaching<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Tran NBNN, et al., Gradient-dependent release of the model drug TRITC-dextran from FITC-labeled BSA hydrogel nanocarriers in the hair follicles of porcine ear skin. *Eur J Pharm Biopharm.* 2017 Jul;116:12-16.
- [2]. Kawoos U, et al., N-acetylcysteine Ameliorates Blast-Induced Changes in Blood-Brain Barrier Integrity in Rats. *Front Neurol.* 2019 Jun 26;10:650.
- [3]. Somaratne G, et al., In-situ disintegration of egg white gels by pepsin and kinetics of nutrient release followed by time-lapse confocal microscopy[J]. *Food hydrocolloids*, 2020, 98: 105228.

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

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