

Product Data Sheet

Product Name: TRITC-dextran, MW 20000

Cat. No.: GC73781

Chemical Properties

Cas. No.

Formula M.Wt 20000

Solubility H₂O : 10 mg/mL (0.50 mM; Need ultrasonic and warming) Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

TRITC-dextran, MW 20000

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

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Background

TRITC-dextran, MW 20000 (Tetramethyl rhodamine isothiocyanate glucan, MW 20000) is a fluorescent dye, with the molecular weight of 20 kD. TRITC-dextran MW 20000 exhibits an excitation wavelength of 555 nm. TRITC-dextran MW 20000 is vessel penetrate, which could label blood plasma to visualize the vasculature. TRITC-dextran MW 20000 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.

References:

- [1]. Tran NBNN, et al., Gradient-dependent release of the model drug TRITC-dextran from FITC-labeled BSA drogel 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 Amide 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 drocolloids, 2020, 98: 105228.

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