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**Product Data Sheet**

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Product Name: MDTF  
Cat. No.: GC69445

**Chemical Properties**

Cas. No.

Formula  $C_{16}H_{10}F_4NNaO_9S$  M.Wt 491.3

Solubility DMSO : 100 mg/mL (203.54 mM; ultrasonic and warming and heat to 60°C) Storage Store at -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

**Background**

MDTF is a non-cleavable antibody-drug conjugates (ADCs)<sup>[1]</sup>.

MDTF (50 μM) increases drophilic character by substitution of a cyclohexyl ring and a MD-based FRET probe incubates in human plasma has a considerably higher self-stabilization rate compared to the MCC-based probe<sup>[1]</sup>.

[1]. Dovgan I, et, al. 2-(Maleimidometl)-1,3-Dioxanes (MD): a Serum-Stable Self-drolyisable drophilic Alternative to Classical Maleimide Conjugation. Sci Rep. 2016 Aug 9;6:30835.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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