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**Product Data Sheet**

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Product Name: MBD  
Cat. No.: GC63061

**Chemical Properties**

Cas. No. 33984-50-8

Formula  $C_{14}H_{12}N_4O_4$  M.Wt 300.27

Solubility DMSO : 25 mg/mL (83.26 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light

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**

MBD (7-(p-Methoxybenzylamino)-4-nitrobenz-2,1,3-oxadiazole), a new fluorescent probe for protein and nucleoprotein conformation, is applied to bacterial ribosomes and to bovine trypsinogen and trypsin. MBD is strongly fluorescent upon binding to a hydrophobic area of a macromolecule[1][2].

[1]. Kenner RA, et al. A new fluorescent probe for protein and nucleoprotein conformation. Binding of 7-(p-methoxybenzylamino)-4-nitrobenzoxadiazole to bovine trypsinogen and bacterial ribosomes. *Biochemistry*. 1971;10(24):4433-4440.

[2]. Kasahara Y, et al. Formation of a conformationally changed C1r, a subcomponent of the first component of human complement, as an intermediate of its autoactivation reaction. *FEBS Lett*. 1982;141(1):128-131.

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

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