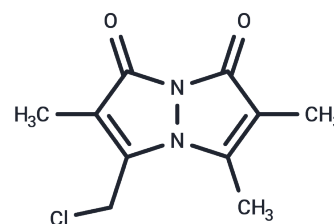


Monochlorobimane

Chemical Properties

CAS No. :	76421-73-3
Formula:	C ₁₀ H ₁₁ ClN ₂ O ₂
Molecular Weight:	226.66
Appearance:	no data available
Storage:	store at low temperature, keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Monochlorobimane (mBBR) is a fluorescent dye with a λ_{ex} value of 380 nm and a λ_{em} value of 470 nm. Monochlorobimane can be used to measure glutathione (GSH) in cells.
In vitro	A common technique to measure Glutathione (GSH) in cultured cells is to add Monochlorobimane to the culture medium where it readily enters cells to form a fluorescent GSH-monochlorobimane adduct that can be measured fluorometrically. The Monochlorobimane approach gives comparable results to the HPLC technique. Monochlorobimane concentration can be lowered to 25 mM and still accurately measure homogenate GSH content.[1]

Solubility Information

Solubility	DMSO: 45.0 mg/mL (198.5 mM), Sonication is recommended. (< 1 mg/mL refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4119 mL	22.0595 mL	44.1189 mL
5 mM	0.8824 mL	4.4119 mL	8.8238 mL
10 mM	0.4412 mL	2.2059 mL	4.4119 mL
50 mM	0.0882 mL	0.4412 mL	0.8824 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kamencic H, et al. Monochlorobimane fluorometric method to measure tissue glutathione. Anal Biochem. 2000 Nov 1;286(1):35-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481