abcam

Product datasheet

Thiazolyl blue tetrazolium bromide (MTT), membrane-permeable dye ab146345

16 References 2 Images

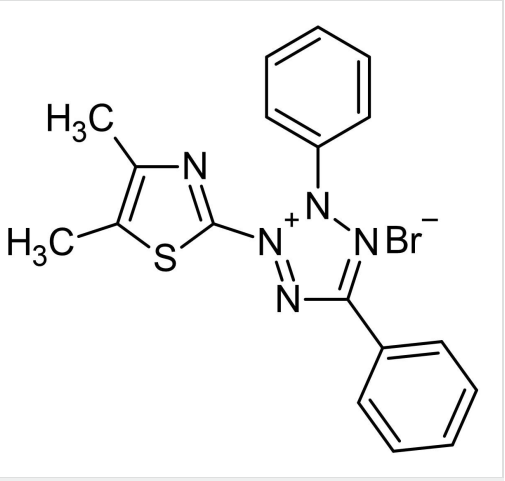
Overview

Product name	Thiazolyl blue tetrazolium bromide (MTT), membrane-permeable dye
Description	Membrane-permeable dye for assessing cell viability and proliferation
Purity	> 98%
CAS Number	298-93-1
Chemical structure	

Properties

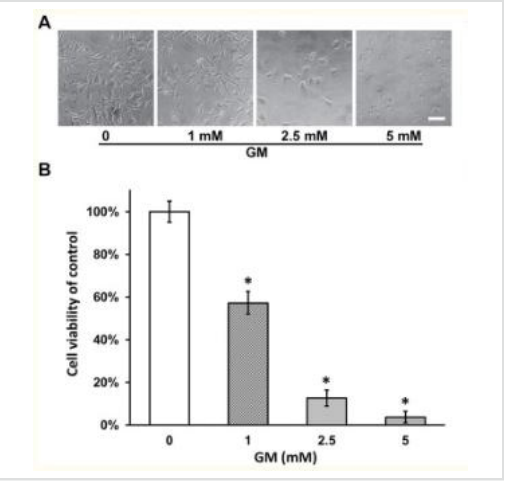
Emission	570nm
Chemical name	2-(4,5-Dimethyl-2-thiazolyl)-3,5-diphenyl-2*H*-tetrazolium bromide
Molecular weight	414.33
Molecular formula	$C_{18}H_{16}BrN_5S$
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 5 mg/ml
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
Source	Synthetic

Images



2D chemical structure image of ab146345, Thiazolyl blue tetrazolium bromide (MTT), membrane-permeable dye

Chemical Structure - Thiazolyl blue tetrazolium bromide (MTT), membrane-permeable dye (ab146345)



NaHS protects viability of HEI-OC1 cells upon gentamicin toxicity.

Gentamicin (GM) was added to the culture medium to a concentration of 0 (control), 1, 2.5 and 5 mM respectively incubated for 48 hours. Representative culture images (A) and viability measured by MTT assay (B) of HEI-OC1 cell culture after gentamicin (GM) treatment were shown.

Scale bar 100 µm. Values were represented as the mean ± SEM from three independent experiments. * $P < 0.05$ vs control.

(After Figure 1A & B of Dong et al).

Functional Studies - Thiazolyl blue tetrazolium bromide (MTT), membrane-permeable dye (ab146345)

Dong et al PLoS One. 2015; 10(8): e0136051.
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