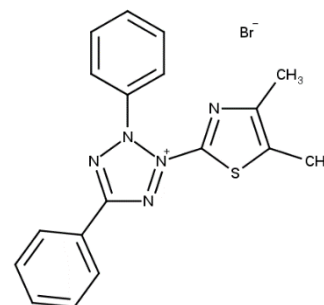




Thiazolyl blue tetrazolium bromide (MTT)

Catalog No: 15655
Lot No: XXXXX
Cas No: 298-93-1
Formula: C₁₈H₁₆BrN₅S
MW: 414.33
Supplied as: solid
Stability: store at 4°C, protect from light
Retest: 10/2027



Background

MTT, a yellow tetrazole, is reduced to purple formazan in living cells. A solubilization solution (usually either dimethyl sulfoxide, an acidified ethanol solution, or a solution of the detergent sodium dodecyl sulfate in diluted hydrochloric acid) is added to dissolve the insoluble purple formazan product into a colored solution. The absorbance of this colored solution can be quantified by measuring at a certain wavelength (usually between 500 and 600 nm) by a spectrophotometer. The degree of light absorption depends on the solvent.

Tests

Purity (titr.):

Specific extinction E (1%/1 cm):

Abs. max. (in H₂O)

Solubility (5% in methanol)

Melting point:

Specifications

≥98.0%

min. 480

239.0 – 247.0 nm

Clear

192 – 210°C

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.