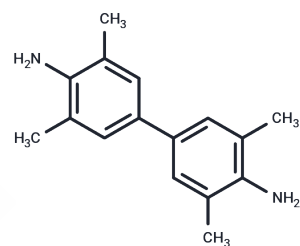


## TMB

## Chemical Properties

CAS No. :	54827-17-7
Formula:	C <sub>16</sub> H <sub>20</sub> N <sub>2</sub>
Molecular Weight:	240.34
Appearance:	no data available
Storage:	keep away from direct sunlight,store under nitrogen Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	TMB (BM blue) is a chromogenic substrate used in staining procedures in immunohistochemistry and as a visualizing reagent in ELISA.
Targets(IC50)	Others
Cell Research	Procedure 1. Prepare bacterial cell culture: E. coli cells were grown in LB medium at 37°C to a suitable state. 2. Collect cells by centrifugation and wash 3 times with PBS. 3. Incubate cells with TMB (200 µM) for 10 minutes. 4. Wash 3 times with PBS to remove excess TMB. 5. Collect optical signals.

## Solubility Information

Solubility	DMSO: 100 mg/mL (416.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1608 mL	20.8039 mL	41.6077 mL
5 mM	0.8322 mL	4.1608 mL	8.3215 mL
10 mM	0.4161 mL	2.0804 mL	4.1608 mL
50 mM	0.0832 mL	0.4161 mL	0.8322 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

Bresolí-Obach R, et al. Tetramethylbenzidine: An Acoustogenic Photoacoustic Probe for Reactive Oxygen Species Detection. Sensors (Basel). 2020 Oct 21;20(20):5952.