## Overview

**Product name** | TMB, high kinetics  
**Description** | Peroxidase substrate  
**General notes** | This material is extremely light sensitive. Take all appropriate steps to minimise exposure to direct sunlight and all UV light sources, including sunlight. Discard if solution is blue or turbid.

## Properties

| Chemical name | 4,4'-Diamino-3,3',5,5'-tetramethylbiphenyl  
| Molecular weight | 240.35  
| Chemical structure | ![Chemical structure](image)  
| Molecular formula | C\textsubscript{16}H\textsubscript{20}N\textsubscript{2}  
| CAS Number | 54827-17-7  
| PubChem identifier | 41206  
| Storage instructions | Store at +4°C short term (1-2 weeks). Store at -20°C. It is important to note that this product is reported to be light sensitive. Please see notes section. Stable for 12 months at -20°C.  
| Solubility overview | Supplied in proprietary buffer with hydrogen peroxide (pH 3.6; 2.08 mM)  
| Handling | Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 6 months. 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. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.  
| SMILES | CC1=CC(=C(C1N)C)C2=CC(=C(C(=C2)C)N)C  
| Source | Synthetic  

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Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"
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- Replacement or refund for products not performing as stated on the datasheet
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- Extensive multi-media technical resources to help you
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