

Product Information

Stop Reagent for TMB Substrate

Solid, for ELISA, 650 nm

S5689

Product Description

In ELISA experiments that use horseradish peroxidase (HRP) conjugates and the chromogenic substrate 3,3',5,5'-tetramethylbenzidine (TMB), it is common practice to stop the reactions with dilute acid, such as HCl or H₂SO₄. This Stop Reagent for TMB Substrate product is designed to stop TMB reactions in ELISA analyses in microwell systems, without producing the spectral change from blue to yellow that results from standard acid quenching of these reactions.

This product is a proprietary, dry blend formulation that is used to stop one-component TMB Liquid Substrate Systems (Cat. Nos. T5569, T4319, T8665, T0440, and T4444) in the blue range of 620 nm to 650 nm. Several publications cite use of S5689 in their protocols.^{1,2}

Precautions and Disclaimer

This product is for R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Prior to hydration with water, this product is stable indefinitely. After hydration, the reagent is stable for a minimum of 2 years. Store at room temperature before and after reconstitution. Refrigerated temperatures will not harm the reagent.

Preparation Instructions

Add 100 mL of distilled or deionized water. Allow approximately 5 minutes to dissolve.

Procedure

Equal volumes of substrate and Stop Reagent solution should be used. Refer to the data sheets included with the respective TMB Liquid Substrate Systems for additional details.

References

1. Khodaverdian, V. *et al.*, *Antimicrob. Agents Chemother.*, **57(8)**, 3645-3652 (2013).
2. Bryant, P. *et al.*, *Mol. Pharmaceuticals*, **12(6)**, 1872-1879 (2015).

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