

## Tyramide Amplification Buffer

Cat. No.:	HY-D1840
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

Tyramide Amplification Buffer

### BIOLOGICAL ACTIVITY

#### Description

Tyramide Amplification Buffer is a ready-to-use buffer primarily intended for immunostaining of cells and tissues by the technique of tyramide signal amplification (TSA). TSA Technology is based on a tyrosinase labeling system that reacts a tyrosine-labeled antibody with a fluorescently labeled tyramide using peroxidase to form a highly amplified fluorescent signal. For example, horseradish peroxidase (HRP) can catalyze the reaction of tyrosine and hydrogen peroxide under milder conditions to generate epoxy groups. Epoxy groups promote the binding of tyramide to adjacent amino acids to form fluorescently labeled products<sup>[1]</sup>.

### REFERENCES

[1]. Yuan L, et al. Integrated tyramide and polymerization-assisted signal amplification for a highly-sensitive immunoassay. *Anal Chem.* 2012 Dec 18;84(24):10737-44.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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