

## AMPPD Chemiluminescent Substrate

### Solution



Each Molecular Promises Accuracy  
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Manual Version: V1.0

## Catalog number

HH7601-01

HH7602-02

## Basic information

Name	AMPPD Chemiluminescence Substrate Solution.
Appearance	Yellowish green clear liquid
Storage conditions	2-8°C, strictly protected from light
Operating temperature	22-35°C
Stability	2-8°C can be stable for more than 2 year
Packaging	Brown plastic bottle
Recommended dosage	100-200 $\mu$ L per test

## Use

HH7601 is a chemiluminescent liquid with high sensitivity, stability and signal-to-noise ratio, which can be used for immunodetection of Alkaline Phosphatase (ALP) as a marker.

## Functional principle

AMPPD has two important parts in its molecular structure. One is the dioxygen tetrad ring that connects the benzene ring and adamantane, which can break and emit photons. The other is the presence of alkaline phosphatase, which catalyzes the removal of phosphate groups and forms an unstable intermediate. The intermediate then spontaneously decomposed and emitted photons, and the number of photons released was proportional to the concentration of ALP in the solution, which was suitable for the chemiluminescence immunoassay system with ALP as the labeled enzyme.

## Features

1. High sensitivity, can detect  $1 \times 10^{-19}$  mol/L (0.01 pg) or even lower concentration of ALP molecule.
2. Wide detection range, ALP concentration in the range of 50-50000 pg/mL detection results are linear correlation.
3. High luminous value, higher than other similar products.
4. Good stability, can be stored at 2-8 degrees Celsius from light for two years.

## Quality Control

Please review the Certificates of Analysis for

each batch (included with the product)

## Precautions

1. After the product is taken out from an environment of 2-8 °C, it can be used at room temperature (25°C) (temperature has a great influence on background value and luminescence value during detection)
2. Strictly avoid light, under any circumstances (including before use) should avoid exposure to strong light, short time exposure will cause 1-10 times of increase in background signal.
3. Before using the reagent on the machine, avoid shaking it violently to avoid foaming.
4. Do not freeze.