

AB-2950 MPEC

Usage:

Measurement of superoxide and anti-oxide ability. MPEC reacts specifically with O₂⁻.

Substance Identification:

- SUBSTANCE: Reagent for Chemiluminescent Superoxide Probe •
- NAME: MPEC •
- MODEL No. AB-2950 •
- VOLUME: 5 mg •
- CHEMICAL FAMILY: 2-methyl-6-p-methoxyphenylethynyl-imidazopyrazinone •
- MOLECULAR FORMULA: C16H13N3O2 •
- MOLECULAR WEIGHT: 279.1008 •

Physical Data:

- **DESCRIPTION:** Brown powder •
- MELTING POINT: 182 185 C
- SOLVENT SOLUBILITY: Soluble in alcohol

How to use:

- Dissolve in alcohol before use. Dilute the solvent with alcohol, distilled water, or buffer ٠ down to designated concentration.
- Do not leave resulted solution for a long time when you use phosphate buffer or HEPES • buffer to dilute. If so, the solution will turn to be transparent and useless.
- Freeze at -20°C to store. •
- Do not store after diluting. •

Applications

- 1. Detection of superoxide
- MPEC (300 µM) 10 µL • Xanthine oxidase 60 µL • 0.1M Potassium Phosphate Buffer (pH 7.5). 180 µL • 0.72 mM Hypoxanthine (pH 7.5) 50 µL 2. Measurement of anti-oxide ability • Sample 10 µL
 - MPEC (300 µM) 10 µL • Xanthine oxidase 0.1 unit/mL 60 µL
 - 0.1M Potassium Phosphate Buffer (pH 7.5). 170 µL
 - 0.72 mM Hypoxanthine (pH 7.5) 50 µL

Reference:

O. Shimomur, Chun Wu, A. Murai, and H. Nakamura (1998)

Evaluation of Five Imidazopyrazinone - Type Chemiluminescent Superoxide Probes and Their Application to the Measurement of Superoxide Anion Generated by Listeria monocytogenes. Anal Biochem. 258, 230-235



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