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Data Sheet

Peroxiredoxin 2 (PRDX2)

human, recombinant, N-terminal His-tag

Catalog #: 70011

Lot# 2003

Conc. 2.1 mg/ml

Formulated in: 25 mM Tris-HCl, pH 8.0,
 100 mM NaCl, 1.35 mM KCl, 0.05% Tween-
 20, 50% glycerol, and 3 mM DTT.

Stability: >6 months at -80°C

References:

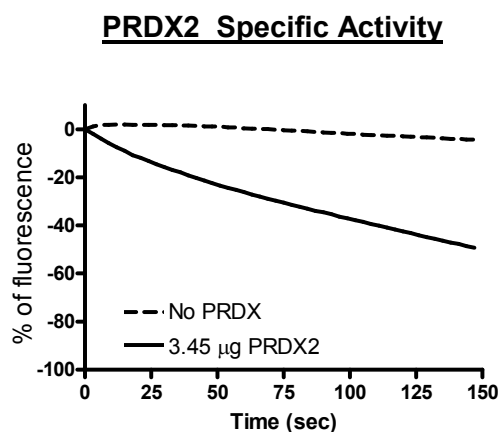
1. Peskin, A.V., *et al.*, *J. Biol. Chem.* **282** (16), 11885-11892 (2007)
2. Low, F.M., *et al.*, *Blood* **109** (6), 2611-2617 (2007)

Description: Human Peroxiredoxin 2, also known as PRDX2, full length (Gene bank accession # NM_005809) with N-terminal His-tag, MW=22.7 kDa, expressed in Baculovirus infected Sf9 cell expression system.

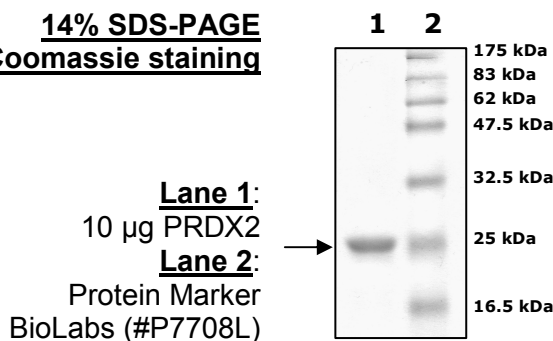
Specific Activity: 149 pmol/min/ug.
 3.45 µg of PRDX2 was incubated in 50 mM HEPES (pH 7.0) containing 200 µM NADPH, 3 µM thioredoxin, and 1.5 µM thioredoxin reductase. The reaction mixture was incubated at 30°C for 5 min, followed by the addition of 0.22 mM H₂O₂. NADPH oxidation was monitored (fluorescence decrease) for the next 10 min.

Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance



**14% SDS-PAGE
 Coomassie staining**



MW: 22.7 kDa
Purity: >95%

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