



Product Information Sheet

Human ALDH1A1

Catalogue Number: CYP151
Product Description: Human aldehyde dehydrogenase 1A1 expressed in *Escherichia coli*
Amount: 1 mg protein
Storage Buffer: 10 mM sodium phosphate (pH 7.4), 140 mM NaCl
Storage: Store at -80°C . Avoid frequent temperature changes. Thaw on ice.
Intended Use: For laboratory (research) purposes only.

Batch Number: INT046E6B
Protein Concentration: 10.0 mg/ml

¹ALDH Activity Data

Substrate: 4-nitrobenzaldehyde
²Linear with time up to: 5 min
³Linear with protein up to: 1 $\mu\text{g/ml}$
 V_{max} : 0.35 nmol/min/ μg protein
 K_{m} : 2.8 μM

Approved by

Date 13th December, 2019

Notes:

- ¹Unless otherwise stated, all assays are carried out at 37°C in 50 mM Hepes buffer (pH 7.4) containing 1 mM EDTA, 2 mM dithiothreitol and 0.5 mM NAD^{+} .
- ²Determined at 2 μM substrate, using a protein concentration of 0.25 $\mu\text{g/ml}$.
- ³Determined at 2 μM substrate, using an incubation time of 4 min.
- ⁴The K_{m} for NAD^{+} is approximately 90 μM .

Safety Data

The toxicological properties of this reagent have not been investigated. Exercise due care when handling.

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United States Patent Nos. 4,952,496, 5,693,489 and 5,869,320.