

Cyclooxygenase 1 from Human, Recombinant

Cat. No. NATE-1237

Lot. No. (See product label)

Introduction

Description COX-1 catalyzes the conversion of arachidonic acid to prostaglandin H2 (the first

step in the biosynthesis of prostaglandins, thromboxanes, and prostacyclins). It is involved in the homeostatic role of eicosanoids and constitutively almost all animal

tissues. Has an apparent KM of 8.3 μM for arachidonic acid.

Synonyms COX-1; Constitutive cyclooxygenase; Prostaglandin H synthase 1; Prostaglandin

endoperoxide synthase; EC 1.14.99.1; prostaglandin synthase; prostaglandin G/H synthase; (PG)H synthase; PG synthetase; prostaglandin synthetase; fatty acid

cyclooxygenase; prostaglandin endoperoxide synthetase

Product Information

Species Human

Source Sf21 cells

Form 80 mM Tris, pH 8.0, containing 0.1% polysorbate 20, 300 µM DDC, and 10%

glycerol

Molecular Weight ~70 kDa

Activity >20,000 units/mg

Unit Definition One unit is defined as the amount of enzyme required to consume 1 nmol of

oxygen per minute at 37°C in 100 mM Tris, pH 8.0, containing 100 μM

arachidonate, 5 mM EDTA, 2 mM phenol, and 1 μ M hematin.

Storage and Shipping Information

Storage -80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein

Stability > 6 months