Creative Enzymes®

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 μM hematin.

Storage and Shipping Information

Storage	-80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein
Stability	> 6 months