

Active Native Sheep COX1 protein

Cat. No. COX1-31S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Sheep COX1 protein
Species	Sheep
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 expressed in almost all animal tissues. Has an apparent KM of 8.3 μ M for arachidonic acid.
Form	Solution in 80 mM Tris-HCl, pH 8, with 0.1% TWEEN® 20 and 300 μ M diethyldithiocarbamate.
Bio-activity	> 30,000 units/mg
Molecular Mass	dimer subunit mol wt 70 kDa
Unit Definition	One unit consumes one nanomole of oxygen per minute at 37 centigrade in 0.1 M Tris-HCl buffer, pH 8, containing 100 μ M arachidonate, 5 mM EDTA, 2 mM phenol, and 1 μ M hematin.
Storage	Store at -70 centigrade
Shipping	dry ice

GENE INFORMATION

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Gene Name	COX1 cytochrome c oxidase subunit I [<i>Ovis aries</i>]
Official Symbol	COX1
Synonyms	COI; cytochrome c oxidase subunit I
Gene ID	808251
mRNA Refseq	
Protein Refseq	NP_008408
MIM	
UniProt ID	O78749
Pathway	Alzheimer's disease, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem

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