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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

COX2 (PTGS2), FLAG-His-tag

Human, recombinant, C-terminal FLAG-His-tag

Catalog #: 71111

Lot #: 131017C **Conc.:** 0.33 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, 80 µg/ml FLAG peptide, 300 µM diethyldithiocarbamate and 0.08% Triton X-100.

Stability: At least 6 months at -80°C. *Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

References:

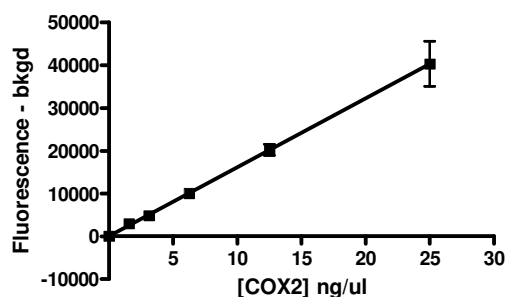
1. Kosaka, T., *et al.*, *Eur J Biochem.* 1994 May 1;**221(3)**:889-97.
2. Cox, D.G., *et al.*, *Br J Cancer.* 2004 Jul 19;**91(2)**:339-43.

Description: Human COX2, GenBank Accession No. NM_000963, also known as Cyclooxygenase-2 Prostaglandin-Endo-peroxide Synthase 2, Prostaglandin G/H Synthase and Cyclooxygenase, PTGS2, Prostaglandin H2 Synthase, PHS-2, Hcox-2, Inducible Prostaglandin H Synthase 2, a.a. 1-604 (end), with C-terminal FLAG-His-tag, MW=71 kDa, expressed in a baculovirus infected Sf9 cell expression system.

Assay Description: Mixed various concentrations of enzyme in Assay buffer (100 mM Tris-HCl pH 8, 3 µM EDTA) with 5 µM Hematin for 10 min then added 100 µM Ampliflu Red and 200 µM arachidonic acid. Fluorescence (ex. 535 em. 590) was measured after 5 minutes at room temperature. Reaction volume was 100 µl

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

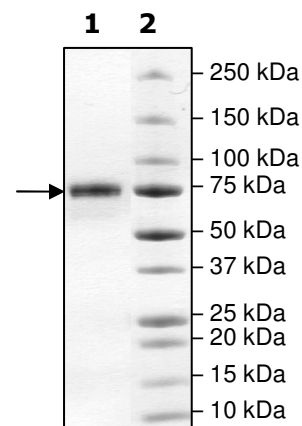
Quality Assurance



4-20% SDS-PAGE
Coomassie staining

Lane 1:
 2 µg COX2
Lane 2:
 Protein Marker

MW: 71 kDa
Purity: ≥90%



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Sequence:

MLARALLLCAVLALSHTANPCCSHPCQNRGVCMSVGFQYKCDCTRTGFYGENCSTP
EFLTRIKLFLKPTPNTVHYILTHFKGFVNVVNNIPFLRNAIMSYVLTSRSHLIDSPPTYNAD
YGYKSWEAFSNLSYYTRALPPVPDDCPTPLGVKGGKQLPDSNEIVEKLLLRKFIPDPQ
GSNMMFAFFAQHFTHQFFKTDHKRGPFTNGLGHGVDLNHIYGETLARQRKLRLFKDG
KMKYQIIDGEMYPPTVKDTQAEMIYPPQVPEHLRFVAVGQEVFGLVPLMMYATIWLREH
NRVCDVLKQEHPPEWGDEQLFQTSRLILIGETIKIVIEDYVQHLSGYHFKLKFDPELLFNKQ
FQYQNRIAAEFNTLYHWHPLLPDTFQIHDQKYNYYQFIYNNISILLEHGITQFVESFTRQIA
GRVAGGRNVPPAVQKVSQASIDQSRQMKYQSFNEYRKRFMLKPYESFEELTGEKEMS
AELEALYGDIDAVELYPALLVEKPRPDAIFGETMVEVGAPFSLKGLMGNVICSPAYWKP
STFGGEVGFQIINTASIQSLICNNVKGCPFTSFSVPDPELIKTVTINASSRSGLDDINPTV
LLKERSTELDYKDDDDKHHHHH

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