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Abbreviations

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ADP, adenosine diphosphate;

Adenylate pool, ATP+ADP+AMP;

ATP, adenosine triphosphate

AMP, adenosine monophosphate

cAMP, cyclic 3',5'-adenosine monophosphate;

CAT, catalase enzyme;

BAO, basal acid output;

COX, cyclo-oxygenase enzyme;

DNA, deoxyribonucleic acid;

DU, duodenal ulcer;

“energy charge”, $[(ATP+0.5\ ADP)/(ATP+ADP+AMP)]$;

ETOH (EtOH), ethanol;

GMCs, gastric mucosal cells;

GMBF, gastric mucosal blood flow;

GSH-px, glutathione peroxidase;

GSH-red., reduced glutathione;

GU, gastric ulcer;

HCl, hydrochlorid acid;

Hep G2 cell line, human hepatoma cell line;

H. pylori, *Helicobacter pylori*;

IND, indomethacin;

IP3, inositol triphosphate;

JU, jejunal ulcer;

6-keto-PGF_{1α}, metabolite of prostacyclin;

LDH, lactate dehydrogenase;

MAO, maximal acid output;

MARK, mitogen-activated protein kinase;

NaOH, sodium hydroxide;

MDA, malondialdehyde;

NOSIDs, non-steroidal anti-inflammatory compounds;

NUD, non ulcer dyspepsia;

PGE₂, prostaglandin E₂,

PGI₂, prostacyclin;

PGs, prostaglandins;

PUD, peptic ulcer disease;

RNA, nucleic acids;

ROS, reactive oxidative species;

SOD, superoxide dismutase;

Sp2/0-Ag14 cell line, mouse myeloma cell line.

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