Native Human Gamma-Glutamyltransferase 1

Cat. No. GGT1-5353H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human GGT1 isprepared from Human Liver.
Species	Human
Source	Human Liver
Description	Theenzyme catalyzes the transfer of the GGT1 to a variety of amino acids anddipeptide acceptors. The enzyme is composed of a heavy chain and a lightchain, which are derived from a single precursor protein, and is present intissues involved in absorption and secretion. The GGT1 is useful in thedetection of liver disease, obstructive jaundice, cholangitis, infectioushepatitus, and cholecystitis. It can also be used to detect diseases of thekidney and to differentiate liver or bile duct (hepatobiliary) disorders frombone disease.
Form	Ammonia SulfateSuspension
Concentration	> 2 mg/ml
Biological Activity	One unit willcatalyze the transfer of one micromole of the glutamyl moiety fromgamm a-glutamyl-p-nitroanilide hydrochloride (gamma-GPNA-HCl) to glycylglycineat 37oC.M easured at 405 nm as directly proportional formation of p-nitroaniline.
Endotoxin Level	< 0.1 ng/ug ofprotein
Specific Activity	> 50 U/mg proteinat 37oC

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Storage	Store at -2-4oC. Stablefor 1 year.
Pathways	Arachidonic acid metabolism;Cyanoamino acid metabolism; Eicosanoid Synthesis; Glutathione metabolism;Metabolic pathways; Selenium Pathway; Taurine and hypotaurine metabolism;gamma-glutamyl cycle

GENE INFORMATION

Gene Name	GGT1gamma-glutamyltransferase 1 [Homo sapiens]
Official Symbol	GGT1
Synonyms	GGT1; gamma-glutamyltransferase1; GGT; GTG; CD224;D22S672; D22S732; MGC96892; MGC96904; MGC96963; GGT1;gamma-glutamyltranspeptidase1; glutamyl transpeptidase;gamma-glutamyltranspeptidase; CD224 antigen gamma-glutamyltransferase 1
Gene ID	2678
mRNA Refseq	NM_001032364
Protein Refseq	NP_001027536
MIM	612346
UniProt ID	P19440
Chromosome Location	22q11
Function	acyltransferase activity;gamma-glutamyltransferase activity; protein binding;

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	transferase activity

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