

Native Human Gamma-Glutamyltransferase 1

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

SPECIFICATION

Product Overview	Native Human GGT1 is prepared from Human Liver.
Species	Human
Source	Human Liver
Description	The enzyme catalyzes the transfer of the GGT1 to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein, and is present in tissues involved in absorption and secretion. The GGT1 is useful in the detection of liver disease, obstructive jaundice, cholangitis, infectious hepatitis, and cholecystitis. It can also be used to detect diseases of the kidney and to differentiate liver or bile duct (hepatobiliary) disorders from bone disease.
Form	Ammonia Sulfate Suspension
Concentration	> 2 mg/ml
Biological Activity	One unit will catalyze the transfer of one micromole of the glutamyl moiety from gamma-L-glutamyl-p-nitroanilide hydrochloride (gamma-GPNA-HCl) to glycylglycine at 37°C. Measured at 405 nm as directly proportional formation of p-nitroaniline.
Endotoxin Level	< 0.1 ng/ug of protein
Specific Activity	> 50 U/mg protein at 37°C

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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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