GGT5 Protein, Human (HEK293, His)

Cat. No.:	HY-P76361
Synonyms:	Glutathione hydrolase 5 proenzyme; GGT-rel; GGT 5; GGTLA1
Species:	Human
Source:	HEK293
Accession:	P36269-1/NP_004112.2 (S30-Y586)
Gene ID:	2687
Molecular Weight:	Approximately 23-27 & 48-61.8 kDa due to the glycosylation

PROPERTIES

AA Sequence	SRHQAPCGPQ AFAHAAVAAD SKVCSDIGRA ILQQQGSPVD ATIAALVCTS VVNPQSMGLG GGVIFTIYNV TTGKVEVINA RETVPASHAP SLLDQCAQAL PLGTGAQWIG VPGELRGYAE AHRRHGRLPW AQLFQPTIAL LRGGHVVAPV LSRFLHNSIL RPSLQASTLR QLFFNGTEPL RPQDPLPWPA LATTLETVAT EGVEVFYTGR LGQMLVEDIA KEGSQLTLQD LAKFQPEVVD ALEVPLGDYT LYSPPPPAGG AILSFILNVL RGFNFSTESM ARPEGRVNVY HHLVETLKFA KGQRWRLGDP RSHPKLQNAS RDLLGETLAQ LIRQQIDGRG DHQLSHYSLA EAWGHGTGTS HVSVLGEDGS AVAATSTINT PFGAMVYSPR TGIILNNELL DLCERCPRGS GTTPSPVSGD RVGGAPGRCW PPVPGERSPS SMVPSILINK AQGSKLVIGG AGGELIISAV AQAIMSKLWL GFDLRAAIAA PILHVNSKGC VEYEPNFSQE VQRGLQDRGQ NQTQRPFFLN VVQAVSQEGA CVYAVSDLRK SGEAAGY
Biological Activity	Measured by its ability to hydrolyze glutathione to Glu and Cys-Gly. The specific activity is 881.5814 pmol/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Heparinase II is a glycosaminoglycan-cleaving protein that utilizes a beta-elimination mechanism to cleave both heparin and heparan sulfate. Specifically, it targets heparin at the alpha-D-GlcNp2S6S(1->4) alpha-L-IdoAp2S linkage and heparan sulfate at the alpha-D-GlcNp2Ac(or 2S)6OH(1->4)beta-D-GlcAp linkage. This enzymatic activity contributes to the regulation of glycosaminoglycan composition and function, impacting cellular processes influenced by these molecules. The precise cleavage sites underscore the specificity of Heparinase II in modifying the structure of heparin and heparan sulfate, implicating its role in diverse physiological and pathological contexts where these glycosaminoglycans are involved.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA