

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	LRGGHVVPV	LSRFLHNSIL
RPSLQASTLR	QLFFNGTEPL	RPQDPLPWP	LATTLETVAT
EGVEVFY TGR	LGQMLVEDIA	KEGSQTLTLD	LAKFQPEVVD
ALEVPLGDYT	LYSPPPPAGG	AILSFILNVL	RGFNFSTESM
ARPEGRVNVY	HHLVETLKFA	KGQRWRLGDP	RSHPKLNAS
RDLLGETLAQ	LIRQQIDGRG	DHQLSHYSLA	EAWGHGTGTS
HVSVLGEDGS	AVAATSTINT	PFGAMVYSPR	TGIILNELL
DLCERCPRGS	GTTSPVSGD	RVGGAPGRCW	PPVPGERSPS
SMVPSILINK	AQGSKLVI GG	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.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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