

Datasheet for ABIN3113071

gamma Glutamyltransferase 1 (GGT1) (AA 27-569) protein (His tag)

4 Images

Overview

Protein Name:	gamma Glutamyltransferase 1 (GGT1)
Synonyms:	ggt1, zgc:64172, CD224, D22S672, D22S732, GGT, GGT 1, GTG, GGT-1, Ggtp, dwg, GGLUT, Ggt, GGT2, cd224, ggt, gtg, GGT1, ggt1-a
Protein Characteristics:	AA 27-569
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Catalog no.	Price	Quantity	Availability
ABIN3113071	Please check our website for current price.	0.5 mg	Please inquire for availability (Ships to: Asia)

Product Details

Sequence:	<p>HHHHHHPSAS KEPDNH VYTRAAVAAD AKQCSKIGRD ALRDGGSAMD AAIAALLCVG</p> <p>LMNAHSMGIG GGLFLTIYNS TTRKAEVINA REVAPRLAFA TMFNSSEQSQ KGGLSVAVPG</p> <p>EIRGYELAHQ RHGRLPWARL FQPSIQLARQ GFPVGKGLAA ALENKRTVIE QQPVLCEVFC</p> <p>RDRKVLREGE RLTLPLADT YETLAIEGAQ AFYNGSLTAQ IVKDIQAAGG IVTAEDLNYY</p> <p>RAELIEHPLN ISLGDVVLYM PSAPLSGPVL ALILNILKGY NFSRESVESP EQKGLTYHRI</p> <p>VEAFRFAYAK RTLLGDPKFV DVTEVVRNMT SEFFAAQLRA QISDDTTHPI SYYKPEFYTP</p> <p>DDGGTAHLSV VAEDGSAVSA TSTINLYFGS KVRSPVSGIL FNNEMDDFSS PSITNEFGVP</p> <p>PSPANFIQPG KQLSSMCPT IMVGQDQVR MVVGAAGGTQ ITTATALAI YNLWFGYDVK</p> <p>RAVEEPRLHN QLLPNVTTVE RNIDQAVTAA LETRHHHTQI ASTFIADVQA IVRTAGGWAA</p>
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Product Details

ASDSRKGGEP AGY

Sequence including N-terminal His-tag.

Characteristics:	<ul style="list-style-type: none"> • Made in Germany - from design to production - by highly experienced protein experts. • Human GGT1 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). • Tag Location: N-terminal His Tag
Purification:	The protein is purified from the cleared cell lysate using DTT resistant His-tag capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Protein Name:	gamma Glutamyltransferase 1 (GGT1)
Background:	<p>Cleaves the gamma-glutamyl bond of extracellular glutathione (gamma-Glu-Cys-Gly), glutathione conjugates, and other gamma-glutamyl compounds. The metabolism of glutathione releases free glutamate and the dipeptide, cysteinyl-glycine, which is hydrolyzed to cysteine and glycine by dipeptidases. In the presence of high concentrations of dipeptides and some amino acids, can also catalyze a transpeptidation reaction, transferring the gamma-glutamyl moiety to an acceptor amino acid to form a new gamma-glutamyl compound. Initiates extracellular glutathione (GSH) breakdown, provides cells with a local cysteine supply and contributes to maintain intracellular GSH level. It is part of the cell antioxidant defense mechanism. Isoform 3 seems to be inactive. {ECO:0000269 PubMed:20622017, ECO:0000269 PubMed:24047895, ECO:0000269 PubMed:7673200, ECO:0000269 PubMed:7759490, ECO:0000269 PubMed:8095045,</p>

Target Details

ECO:0000269|PubMed:8827453}.

Molecular Weight: 59.5 kDa Including tag.

UniProt: [P19440](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

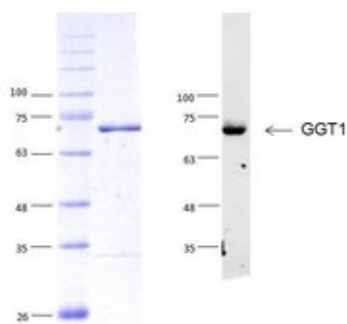


Image 2.

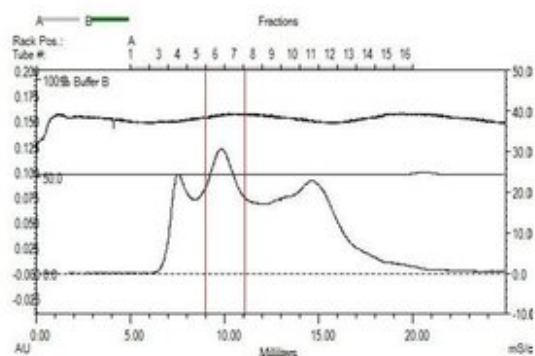


Image 3.

Images

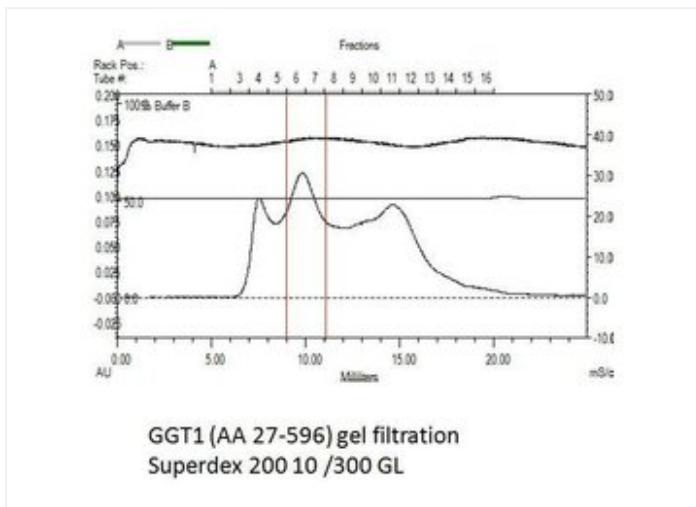


Image 4.

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antibodies-online GmbH
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Pos.	Product-ID	Product-Name	Amount
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2.			
3.			

I took note of and accepted the terms and conditions of antibodies-online GmbH (<https://www.antibodies-online.com/terms/>).

Place, Date

Signature