

MGST2 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702379
Synonyms:	Microsomal glutathione S-transferase 2; Glutathione peroxidase MGST2; 1.11.1.-; Leukotriene C4 synthase MGST2; 4.4.1.20; Microsomal glutathione S-transferase II; Microsomal GST-II
Species:	Human
Source:	E. coli Cell-free
Accession:	Q99735 (M1-F147)
Gene ID:	4258
Molecular Weight:	19.4 kDa

PROPERTIES

AA Sequence	<p>M A G N S I L L A A V S I L S A C Q Q S Y F A L Q V G K A R L K Y K V T P P A V</p> <p>T G S P E F E R V F R A Q Q N C V E F Y P I F I I T L W M A G W Y F N Q V F A T</p> <p>C L G L V Y I Y G R H L Y F W G Y S E A A K K R I T G F R L S L G I L A L L T L</p> <p>L G A L G I A N S F L D E Y L D L N I A K K L R R Q F</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	<p>CD157 protein acts as a versatile enzyme with dual functionality, catalyzing both the synthesis of cyclic ADP-beta-D-ribose (cADPR) from NAD(+) and the subsequent hydrolysis of cADPR to ADP-D-ribose (ADPR). The synthesized cADPR serves as an endogenous second messenger, known to trigger calcium release from intracellular stores, thereby playing a crucial role in regulating intracellular calcium mobilization (Probable). Beyond its enzymatic activities, CD157 is implicated in pre-B-cell growth, suggesting a potential role in the developmental processes associated with B-cell maturation (Probable).</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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