

## GOT1 Protein, Human (His)

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|--------------------------|---|
| <b>Cat. No.:</b>         | HY-P7611  |
| <b>Synonyms:</b>         | rHuGOT1, His; Glutamate Oxaloacetate Transaminase 1; Transaminase A; GOT1 |
| <b>Species:</b>          | Human   |
| <b>Source:</b>           | E. coli   |
| <b>Accession:</b>        | P17174 (A2-Q413)  |
| <b>Gene ID:</b>          | 2805  |
| <b>Molecular Weight:</b> | Approximately 45.0 kDa  |

### PROPERTIES

#### AA Sequence

|                     |                     |                     |                     |
|---------------------|---------------------|---------------------|---------------------|
| A P P S V F A E V P | Q A Q P V L V F K L | T A D F R E D P D P | R K V N L G V G A Y |
| R T D D C H P W V L | P V V K K V E Q K I | A N D N S L N H E Y | L P I L G L A E F R |
| S C A S R L A L G D | D S P A L K E K R V | G G V Q S L G G T G | A L R I G A D F L A |
| R W Y N G T N N K N | T P V Y V S S P T W | E N H N A V F S A A | G F K D I R S Y R Y |
| W D A E K R G L D L | Q G F L N D L E N A | P E F S I V V L H A | C A H N P T G I D P |
| T P E Q W K Q I A S | V M K H R F L F P F | F D S A Y Q G F A S | G N L E R D A W A I |
| R Y F V S E G F E F | F C A Q S F S K N F | G L Y N E R V G N L | T V V G K E P E S I |
| L Q V L S Q M E K I | V R I T W S N P P A | Q G A R I V A S T L | S N P E L F E E W T |
| G N V K T M A D R I | L T M R S E L R A R | L E A L K T P G T W | N H I T D Q I G M F |
| S F T G L N P K Q V | E Y L V N E K H I Y | L L P S G R I N V S | G L T T K N L D Y V |
| A T S I H E A V T K | I Q H H H H H H     |                     |                     |

**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 100 mM NaCl, 2 mM DTT, 20% Glycerol, pH 7.5.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A

**Storage & Stability** Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping** Shipping with dry ice.

### DESCRIPTION

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## Background

Blood glutamate scavenging is a novel and attractive protecting strategy to reduce the excitotoxic effect of extracellular glutamate released during ischemic brain injury. Glutamate oxaloacetate transaminase 1 (GOT1) activation by means of oxaloacetate administration has been used to reduce the glutamate concentration in the blood<sup>[1]</sup>.

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## REFERENCES

[1]. M Pérez-Mato, et al. Human recombinant glutamate oxaloacetate transaminase 1 (GOT1) supplemented with oxaloacetate induces a protective effect after cerebral ischemia. *Cell Death Dis.* 2014 Jan 9;5(1):e992.

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

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