

GSTA1 Protein, Rat, Recombinant (His & SUMO)

General Information

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| Synonyms: | Gsta1; Glutathione S-transferase Ya-1 (GST Ya1); GST 1-1; Androst-5-ene-3,17-dione isomerase; 13-hydroperoxyoctadecadienoate peroxidase; GST A1-1; GST 1a-1a; Ligandin; Glutathione S-transferase alpha-1; GST B |
| Protein Construction: | 2-222 aa |
| Species: | Rat |
| Expression Host: | E. coli |
| Accession: | P00502 |
| Molecular Weight: | 41.5 kDa (predicted) |
| AA Sequence: | SGKPVLHYFNARGRMECIRWLLAAAGVEFDEKFIQSPEDLEKLLKDGNL MFDQVPMVEIDGMKLAQTRAILN YIATKYDLYGKDMKERALIDMYTEGILDLTEMIMQLVICPPDQKEAKTALAKDRTKNRYLP AFEKVLKSHGQDY LVGNRLTRVDIHLELLLYVEEFDASLLTSFPLLKAFKSRISL PNVKFLQPGSQRKLPVDAKQIEEARKIFK |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Tris-based buffer, 50% glycerol |

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Glutathione S-transferase that catalyzes the nucleophilic attack of the sulfur atom of glutathione on the electrophilic groups of a wide range of exogenous and endogenous compounds (Probable). Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2). It also catalyzes

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the isomerization of D5-androstene-3,17-dione (AD) into D4-androstene-3,17-dione and may therefore play an important role in hormone biosynthesis. Through its glutathione-dependent peroxidase activity toward the fatty acid hydroperoxide (13S)-hydroperoxy-(9Z,11E)-octadecadienoate/13-HPODE it is also involved in the metabolism of oxidized linoleic acid.

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