

## GSTA4 recombinant protein

GSTA4, 1-222aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48777</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

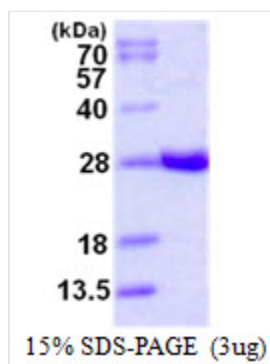
### PRODUCT SYNONYMS

GSTA4; 1-222aa; Human; His tag; E Coli; glutathione S-transferase alpha 4; GSTA4-4; GTA4; GSTA4 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                                                                                             |
| Purity/Purification                                   | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                  |
| Form/Format                                           | Liquid. In 20 mM Tris-HCl Buffer, pH8.0, 20% glycerol, 2mM DTT, 100mM NaCl                                                                                                                                                                                                         |
| Concentration                                         | 1mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                              |
| Sequence                                              | MGSSHHHHH SSGLVPRGSH MGSMAARPK LHYPNGRGRM ESVRWLAAA GVEFDEEFLE TKEQLYKLQD<br>GNHLLFQQVP MVEIDGMKLV QTRSILHYIA DKHNLFQGNL KERTLIDMYV EGTLDLLELL IMHPFLKPDD<br>QQKEVVNMAQ KAIIRYFPVF EKILRGHGQS FLVGNQLSLA DVILLQTLA LEEKIPNLS AFPFLQEYTV<br>KLSNIPTIKR FLEPGSKKKP PPDEIYVRTV YNIFRP |
| Sequence Length                                       | 222                                                                                                                                                                                                                                                                                |
| Applicable Applications for GSTA4 recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                           |
| Antigen Species                                       | Human                                                                                                                                                                                                                                                                              |
| Tag Information                                       | His-tag                                                                                                                                                                                                                                                                            |
| Preparation and Storage                               | Can be stored at 4 degree C short term (1-2 weeks).<br>For long term storage, aliquot and store at -20 degree C or -70 degree C.<br>Avoid repeated freezing and thawing cycles.                                                                                                    |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GSTA4 recombinant protein | GSTA4, also known as glutathione S-transferase A4, belongs to the GST superfamily. This enzyme is involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. GSTA4 shows very high activity with reactive carbonyl compounds such as alk-2-enals. GSTA4 is highly effective in catalyzing the conjugate addition of reduced glutathione to 4-hydroxynonenal, an important product of peroxidative degradation of arachidonic acid and a commonly used biomarker for oxidative damage in tissue. This enzyme is expressed at a high level in brain, placenta, and skeletal muscle and much lower in lung and liver. Recombinant human GSTA4 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques. |
| Product Categories/Family for GSTA4 recombinant protein   | Metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| References                                                | Bruns C.M., et al. (1999) J. Mol. Biol. 288:427-439; Balogh L.M., et al. (2010) Biochemistry 49:1541-1548                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 4504173                                        |
| NCBI GeneID                      | 2941                                           |
| NCBI Accession #                 | NP_001503                                      |
| NCBI GenBank Nucleotide #        | NM_001512.3                                    |
| UniProt Accession #              | O15217; Q5T7Q8; Q6P4G1; Q9BX18; Q9H414; B2RD15 |
| Molecular Weight                 | 28.3kDa (246aa) confirmed by MALDI-TOF         |
| NCBI Official Full Name          | glutathione S-transferase A4                   |
| NCBI Official Synonym Full Names | glutathione S-transferase alpha 4              |
| NCBI Official Symbol             | GSTA4                                          |
| NCBI Official Synonym Symbols    | GTA4; GSTA4-4                                  |
| NCBI Protein Information         | glutathione S-transferase A4                   |
| UniProt Protein Name             | Glutathione S-transferase A4                   |
| UniProt Gene Name                | GSTA4                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gsta4-recombinant-protein-e-coli-sds-page/48777>