

## Recombinant Human GSTA4, His-tagged

Cat. No. GSTA4-15844H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GSTA4 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-222aa
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 20% glycerol, 2mM DTT, 100mM NaCl
<b>Molecular Mass</b>	28.3kDa (246aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSHEMAARPK LHYPNGRGRM ESVRWVLA AA GVEFDEEFLE TKEQLYKLQD GNHLLFQQVP MVEIDGMKLV QTRSILHYIA DKHNLFQGNL KERTLIDMYV EGTLDLLELL IMHPFLKPDD QQKEVVNMAQ

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KAIIRYFPVF EKILRGHGQS FLVGNQLSLADVILLQTLA LEEKIPNILS AFPFLQEYTV  
KLSNIPTIKR FLEPGSKKKP PPDEIYVRTV YNIFRP

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [GSTA4 glutathione S-transferase alpha 4 \[ Homo sapiens \]](#)

**Official Symbol** GSTA4

**Synonyms** GSTA4; glutathione S-transferase alpha 4; glutathione S transferase A4; glutathione S-transferase A4; GST class-alpha member 4; glutathione transferase A4-4; glutathione S-transferase A4-4; glutathione S-aryltransferase A4; glutathione S-alkyltransferase A4; glutathione S-aralkyltransferase A4; S-(hydroxyalkyl)glutathione lyase A4; GTA4; GSTA4-4; DKFZp686D21185;

**Gene ID** [2941](#)

**mRNA Refseq** [NM\\_001512](#)

**Protein Refseq** [NP\\_001503](#)

**MIM** [605450](#)

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<b>UniProt ID</b>	O15217
<b>Chromosome Location</b>	6p12.2
<b>Pathway</b>	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism, organism-specific biosystem;
<b>Function</b>	glutathione transferase activity; glutathione transferase activity; glutathione transferase activity; protein homodimerization activity; transferase activity;

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