

Recombinant Human Glutathione S-transferase Alpha 4, His-tagged

Cat. No. GSTA4-1956H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinanthuman GSTA4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	GSTA4 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.
Form	Liquid. In 20 mM Tris-HCl buffer, pH 8.0, 20% glycerol, 2mM DTT, 100mM NaCl.
Molecular Weight	28.3 kDa (246aa) confirmed by MALDI-TOF
Purity	> 95% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of aminoacids	MGSSHHHHHSSGLVPRGSH MGSMAARPK LHYPNGRGRM ESVRWVLA GVEFDEEFLE TKEQLYKLQDGNHLLFQQVP MVEIDGMKLV QTRSILHYIA DKHNLFGKNL KERTLIDMYV EGTLDLLELL IMHPFLKPDDQQKEVVNMAQ KAIIRYFPVF EKILRGHGQS FLVGNQLSLA DVILLQTLA LEEKIPNLS AFPFLQEYTVKLSNIPTIKR FLEPGSKKKP PPDEIYVRTV YNIFRP
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
OfficialSymbol	GSTA4
nullValue_other	Pathway Biological oxidations; Drugmetabolism-cytochrome P450; Glutathione conjugation; Glutathione metabolism;Metabolism; Metabolism of xenobiotics by cytochrome P450; Phase IIconjugation

GENE INFORMATION

Gene Name	GSTA4 glutathione S-transferase alpha 4 [Homo sapiens]
Synonyms	GSTA4; glutathioneS-transferase alpha 4; GTA4; GSTA4-4; OTTHUMP00000016624; OTTHUMP00000016625;OTTHUMP00000016626; OTTHUMP00000016627; glutathione S-transferase A4; GlutathioneS-transferase A4-4; GST class-alpha member 4; EC 2.5.1.18; DKFZp686D21185; glutathioneS-alkyltransferase A4; glutathione S-aralkyltransferase A4; glutathioneS-aryltransferase A4; S-(hydroxyalkyl)glutathione lyase A4
Gene ID	2941
mRNA Refseq	NM_004177
Protein Refseq	NP_004168

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MIM	605450
UniProt ID	Q13277
Chromosome Location	6p12.1
PDBrendering based on 1gul. 	