

GSTA4, human recombinant protein
Glutathione S-transferase alpha 4, GSTA4-4, GTA4
Catalog # PBV11359r**Specification****GSTA4, human recombinant protein - Product info**

Primary Accession	O15217
Concentration	1
Calculated MW	28.3 kDa (246 aa, 1-222 aa + His Tag) KDa

GSTA4, human recombinant protein - Additional Info

Gene ID	2941
Gene Symbol	GSTA4
Other Names	
Glutathione S-transferase alpha 4, GSTA4-4, GTA4	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity > 0.9 units/mg
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMAARPK LHYPNGRGRM ESVRWVLA AA GVEFDEEFLE TKEQLYKLQD GNHLLFQQVP MVEIDGMKLV QTRSILHYIA DKHNLFGKNL KERTLIDMYV EGTLDLLELL IMHPFLKPDD QQKEVVNMAQ KAIIRYFPVF EKILRGHGQS FLVGNQLSLA DVILLQTLA LEEKIPNLS AFPFLQEYTV KLSNIPTIKR FLEPGSKKKP PPDEIYVRTV YNIFRP

Target/Specificity
GSTA4**Format**
Liquid**Storage**
-20°C; 1 mg/ml solution 20 mM Tris-HCl buffer, pH 8.0, 20% glycerol, 2 mM DTT and 100 mM NaCl.**GSTA4, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GSTA4, human recombinant protein - Images

GSTA4, human recombinant protein - Background

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.

GSTA4, human recombinant protein - References

Hubatsch I., et al. Biochem. J. 330:175-179(1998).
Board P.G., et al. Biochem. J. 330:827-831(1998).
Liu S., et al. Arch. Biochem. Biophys. 352:306-313(1998).
Piper J.T., et al. Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.
Desmots F., et al. Biochem. J. 336:437-442(1998).