
Product Data Sheet

Product Name: GSTA4 Human
 Cat. No.: GP21739
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione S-transferase A4; GST class-alpha member 4; Glutathione S-transferase A4-4; GSTA4; GSTA4-4.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHEMAARPK LHYPNGRGRM ESVRWVLA AA GVEFDEEFLE TKEQLYKLQD GNHLLFQQVP MVEIDGMKLV QTRSILHYIA DKHNLFGKNL KERTLIDMYV EGTLDLLELL IMHPFLKPDD QQKEVVNMAQ KAIIRYFPVF EKILRGHGQS FLVGNQLSLADVILLQTLA LEEKIPNILS AFPFLQEYTV KLSNIPTIKR FLEPGSKKKP PPDEIYVRTV YNIFRP.		
Formulation	The GSTA4 solution (1mg/ml) contains 20mM Tris-HCl buffer, pH8.0, 20% glycerol, 2mM DTT and 100mM NaCl.		

Introduction

Glutathione S-transferase A4 (GSTA4) is a member of the GST superfamily. The GSTA4 enzyme is involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. GSTA4 shows an especially high activity with reactive carbonyl compounds such as alk-2-enals. GSTA4 is extremely effective in catalyzing the conjugate addition of reduced glutathione to 4-hydroxynonenal, which is an important product of peroxidative degradation of arachidonic acid and a frequently used biomarker for oxidative damage in tissue. The GSTA4 enzyme is expressed at a high level in the brain, placenta, and skeletal muscle and much lower in the lung and liver.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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GSTA4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (1-222) and having a molecular mass of 28.3kDa. GSTA4 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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