



# SZABO SCANDIC

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## Produktinformation



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Zellkultur & Verbrauchsmaterial



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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### GSTA1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00002938-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human GSTA1 full-length ORF (AAH53578.1, 1 a.a. - 222 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MAEKPKLHYFNARGRMESTRWLLAAAGVEFEEKFIKS  
AEDLDKLRNDGYLMFQQVPMVEIDGMKLVQTRAILNYI  
ASKYNLYGKDIKERALIDMYIEGIADLGEMILLPVCPE  
EKDAKLALIKEKIKNRYFPFAFEKVLKSHGQDYLVGNKL  
SRADIHLVELLYVEELDSSLISSFPLLKALKTRISNLPT  
VKKFLQPGSPRKPPMDEKSLEEARKIFRF

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 50.16

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2938

**Gene Symbol:** GSTA1

**Gene Alias:** GST2, GSTA1-1, GTH1, MGC131939

**Gene Summary:** Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct

supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation. [provided by RefSeq]