

## Recombinant Full Length Human GSTA2 Protein, C-Flag-tagged

Cat. No. GSTA2-1666HFL    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Full Length Human GSTA2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

#### Species

Human

#### Source

Mammalian Cells

#### Description

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.

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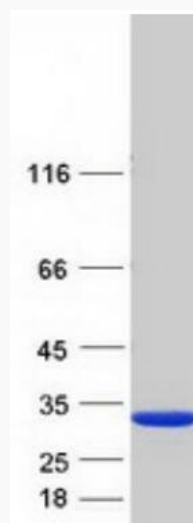
|                         |                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 25.5 kDa                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MAEKPKLHYSNIRGRMESIRWLLAAAGVEFEEKFIKSAEDLDKLRNDGYLMFQQVP<br>MVEIDGMKLVQTRA ILNYIASKYNLYGKDIKEKALIDMYIEGIADLGEMILLLPFTQPEE<br>QDAKLALIQEKTKNRYFPAFEKVL KSHGQDYLVGNKLSRADIHLVELLYYVEELDSSL<br>ISSFPLLKALKTRISNLP TVKKFLQPGSPRKPPMDE<br>KSLEESRKIFRFTTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                      |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                                                                                                                                          |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                                                                                                                                                 |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                                                                  |
| <b>Protein Families</b> | Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450                                                                                                                                                                           |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>        | GSTA2 glutathione S-transferase alpha 2 [ Homo sapiens (human) ]                                                                                                                                                                                                                  |

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|                        |                             |
|------------------------|-----------------------------|
| <b>Official Symbol</b> | <a href="#">GSTA2</a>       |
| <b>Synonyms</b>        | GST2; GTA2; GTH2; GSTA2-2   |
| <b>Gene ID</b>         | <a href="#">2939</a>        |
| <b>mRNA Refseq</b>     | <a href="#">NM_000846.5</a> |
| <b>Protein Refseq</b>  | <a href="#">NP_000837.3</a> |
| <b>MIM</b>             | <a href="#">138360</a>      |
| <b>UniProt ID</b>      | <a href="#">P09210</a>      |



Coomassie blue staining of purified GSTA2 protein.