

GSTM3, human recombinant

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|-------------------------|---|--------|
| CATALOG #: | 7801-100 | 100 µg |
| ALTERNATE NAMES: | Glutathione S-transferase mu 3, GST5, GSTB, GSTM3-3, GTM3 | |
| SOURCE: | E. Coli | |
| PURITY: | > 95% by SDS - PAGE | |
| MOL. WEIGHT: | 29.1 kDa (249 aa, 1-225 aa) | |
| FORM: | Liquid | |
| FORMULATION: | 1 mg/ml solution 20 mM Tris-HCl buffer, pH 8.0, 10% glycerol, 1 mM DTT and 100 mM NaCl. | |

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

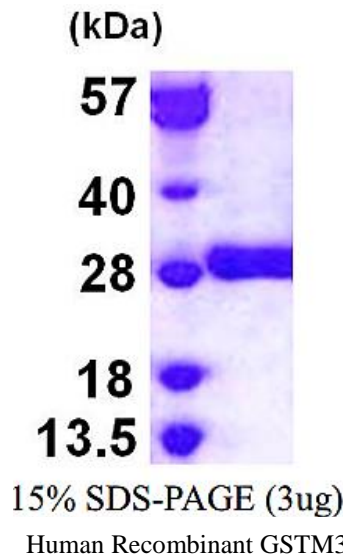
Glutathione S-transferase mu 3, also known as GSTM3, is member of the glutathione s-transferase (GST) family of proteins. There are eight families of GST proteins, namely alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have a variety of functions throughout the cell. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Recombinant human GSTM3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AMINO ACID SEQUENCE:

MGSSHHHHH SSGLVPRGSH MGSMSCESS MVLGYWDIRG LAHAIRLLLE
 FTDSYEEKR YTCGEAPDYD RSQWLDVKFK LDLDFPNLPY LLDGKNKITQ SNAILRYIAR
 KHNMCGETEE EKIRVDIEN QVMDFRTQLI RLCYSSDHEK LKPQYLEELP GQLKQFSMFL
 GKFSWFAGEK LTFVDFLTVD ILDQNRIFDP KCLDFEPNLK AFMCRFEALE KIAAYLQSDQ
 FCKMPINNKM AQWGNKPVC

BIOLOGICAL ACTIVITY:

Specific activity > 4.7 units/mg, a unit is defined as the amount of enzyme that conjugate 1.0 µmole of 1-chloro-2, 4-dinitrobenzene (CDNB), with reduced glutathione per minute pH 6.5 at 25°C.



RELATED PRODUCTS:

- GST Colorimetric Activity Assay Kit (**Cat. No. K263-100**)
- GST Fluorometric Activity Assay Kit (**Cat. No. K260-100**)
- GST Inhibitor-1 (Cibacron Blue 3G-A, Sodium Salt) (**Cat. No. 1555R-1000**)
- GST Inhibitor-2 (Ethacrynic acid) (**Cat. No. 1556-1000**)
- Human recombinant GSTA1 (**Cat. No. 6346-100**)
- Human recombinant GSTP1 (**Cat. No. 6347-100**)
- Mouse recombinant GSTMu1 (**Cat. No. 6348-100**)
- Mouse recombinant GSTM1 (**Cat. No. 6349-100**)
- Schistosoma japonicum recombinant GST (**Cat. No. 6351-100**)
- Human recombinant GSR (**Cat. No. 6352-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.