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Product datasheet for PH303086

GST3 (GSTP1) (NM_000852) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GSTP1 MS Standard C13 and N15-labeled recombinant protein (NP_000843)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203086
Predicted MW:	23.3 kDa
Protein Sequence:	>RC203086 protein sequence Red=Cloning site Green=Tags(s) MPPYTVVYFPVRGRCAALRMLLADQGQSWKEEVVTVETWQEGSLKASCLYGQLPKFQDGDLTLYQSNTIL RHLGRTLGLYGKDQQEAALVDMVNDGVEDLRCKYVSLIYTNYEAGKDDYVKALPGQLKPFETLLSQNQGG KTFIVGDQISFADYNLLDLLLIHEVLAPGCLDAFPLLSAYVGRLSARPKLKAFLASPEYVNLPINGNGKQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000843
RefSeq Size:	986
RefSeq ORF:	630
Synonyms:	DFN7; FAEES3; GST3; GSTP; HEL-S-22; PI
Locus ID:	2950
UniProt ID:	P09211, V9HWE9

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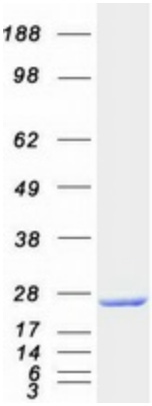
Cytogenetics: 11q13.2

Summary: Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi, and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450, Pathways in cancer, Prostate cancer

Product images:



Coomassie blue staining of purified GSTP1 protein (Cat# [TP303086]). The protein was produced from HEK293T cells transfected with GSTP1 cDNA clone (Cat# [RC203086]) using MegaTran 2.0 (Cat# [TT210002]).