

Product datasheet for PH302130

GSTA4 (NM_001512) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GSTA4 MS Standard C13 and N15-labeled recombinant protein (NP_001503)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202130
Predicted MW:	25.7 kDa
Protein Sequence:	<p>>RC202130 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MAARPKLHYPNGRGRMESVRWVLAAGVEFDEEFLETKEQLYKLDGNHLLFQQVPMVEIDGMKLVQTRS ILHYIADKHNLFGKNLKERTLIDMYVEGTLDLLELLIMHPFLKPDDQQKEVYNMAQKAIIRYFPVFEEKIL RGHGQSFLVGNQLSLADVILLQILALEEKIPNLSAFPFLQEYTVKLSNIPTIKRFLEPGSKKKPPPDE IYVRTVYNIFRP</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_001503
RefSeq Size:	1352
RefSeq ORF:	666
Synonyms:	GSTA4-4; GTA4
Locus ID:	2941
UniProt ID:	O15217 , A0A024RD58

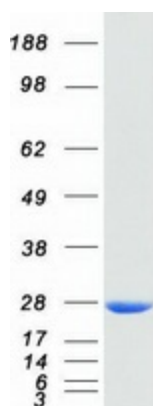

[View online »](#)

Cytogenetics: 6p12.2

Summary: Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. 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, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq, Jul 2008]

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

Product images:



Coomassie blue staining of purified GSTA4 protein (Cat# [TP302130]). The protein was produced from HEK293T cells transfected with GSTA4 cDNA clone (Cat# [RC202130]) using MegaTran 2.0 (Cat# [TT210002]).