
Product Data Sheet

Product Name: GSTM3 Human
 Cat. No.: GP21747
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione S-transferase mu 3 (brain); GST5; GSTM3-3; GST class-mu 3; GSTB; GTM3; brain type mu-glutathione S-transferase; glutathione S-aralkyltransferase M3; glutathione S-alkyltransferase M3; S-(hydroxyalkyl)glutathione lyase M3; EC 2.5.1.18.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMCESS MVLGYWDIRG LAHAIRLLLE FTDTSYEEKR YTCGEAPDYD RSQWLDVKFK LDLDFPNLPY LLDGKNKITQ SNAILRYIAR KHNMCGETEE EKIRVDIEN QVMDFRTQLI RLCYSSDHEK LKPQYLEELP GQLKQFSMFL GKFSWFAGEK LTFVDFLTYD ILDQNRIFDP KCLDEFPNLK AFMCRFEALE KIAAYLQSDQ FCKMPINNKM AQWGNKPVC		
Formulation	The GSTM3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.		

Introduction

GSTM3 belongs to the glutathione s-transferase (GST) family of proteins. There are eight GST proteins families, named alpha, kappa, mu, omega, pi, sigma, theta and zeta. Each one of the GST families has several proteins with different functions throughout the cell. The mu type of enzymes takes part in the detoxification of electrophilic compounds, including therapeutic drugs, carcinogens, environmental toxins and products of oxidative stress, by conjugation with glutathione.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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GSTM3 Recombinant produced in E. coli is a single polypeptide chain containing 249 amino acids (1-225) and having a molecular mass of 29.1kDa. GSTM3 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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