Active Recombinant Yeast MET3 Protein, His-tagged

Cat. No. MET3-26Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Yeast MET3 Protein (Pro2-Phe511) is produced by E. coli-derived expression system. This protein is fused with N-terminal Met and 6-His tag
Species	Yeast
Source	E.coli
ProteinLength	Pro2-Phe511
Description	Sulfur metabolism is essential to all organisms. Inorganic sulfate is sequentially activated by ATP Sulfurylase and adenosine 5′-phosphosulfate kinase (APSK). ATP Sulfurylase converts ATP to adenosine-5'-phosphosulfate (APS) and generates pyrophosphate. APSK subsequently phosphorylates APS at the 3′ site to generate 3'-phosphoadenosine-5'-phosphosulfate (PAPS). PAPS is the sulfur donor required for all sulfotransferase reactions in humans and is also the sulfur source for synthesis of cysteine, methionine and glutathione. The ATP Sulfurylase reaction is highly unfavorable energetically with the standard free-energy change of approximately +46 kJ/mol. To drive the reaction forward, APSK and pyrophosphatase are generally added into the reaction simultaneously to remove the products. The recombinant S. cerevisiae ATP Sulfurylase can be used for in vitro PAPS synthesis.
Predicted N Terminal	Met
Form	Supplied as a 0.2 μm filtered solution in Tris, NaCl, Glycerol and DTT.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its ability to sulfurylate ATP. The specific activity is >2,500 pmol/min/μg.
Molecular Mass	59 kDa
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 μg per lane
Storage	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.

GENE INFORMATION

UniProt ID	P08536

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