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SEPX1, 1-116aa, Human, His tag, E.coli

产品货号: TP03893

第三版

别名: Methionine-R-sulfoxide reductase B1, Selenoprotein X, HSPC270, MSRB1, SELR, SELX, MSRB1

描述: SEPX1, also known as Methionine sulfoxide reductase B1 (MSRB1), is a selenoprotein. Methionine sulfoxide reductases (MSRs) catalyze reduction of free and protein-bound methionine sulfoxides to corresponding methionines. The oxidation of methionine by ROS generates a diastereomeric mixture of methionine-S-sulfoxide (Met-S-SO) and methionine-R-sulfoxide (Met-R-SO). Two distinct enzyme families evolved for reduction of these sulfoxides, with methionine-S-sulfoxide reductase (MsrA) being stereospecific for Met-S-SO and methionine-R-sulfoxide reductase (MsrB) for Met-R-SO. In bacteria, the selenocystein (Sec/U) element is located immediately following the UGA codon within the reading frame for the selenoprotein so we mutated Sec-95 to Cys. Recombinant human SEPX1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

配方: Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT, 0.1 mM PMSF, 2mM EDTA, 10% Glycerol

分子量: 14.8 kDa(136aa), confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMSFCSEFFGGEVFQNHFEVYVCAKCGYELFSSRSKYAHSSPWPAFTETIHADSVAKRPE
HNRSEALKVSCGKCGNGLGHEFLNDGPKPGQSRFCIFSSSLKFVPGKETSASQGH

纯度: > 95% by HPLC

浓度: 0.5mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.