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Sepiapterin reductase, 1-261 aa, Human, His-tagged, Recombinant, E.coli

产品货号: TP03886

第三版

别名:SPR

描述:Sepiapterin reductase (SPR) belongs to the short-chain dehydrogenase/reductase (SDR) family and also reduces various exogenous carbonyl compounds including phenylpropanedione. SPR is an essential enzyme for the biosynthesis of tetrahydrobiopterin, an essential cofactor for aromatic amino acid hydrolases including tyrosine hydroxylase, the rate-limiting enzyme in dopamine synthesis. Defects in SPR cause DOPA-responsive dystonia defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Recombinant human SPR 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 8.0), 10% glycerol

分子量:30.2 kDa (281aa), confirmed by MALDI-TOF.

序列:

MGSSHHHHHSSGLVPRGSHMEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDEALRQLEAELGAERSGL
RVVVRVPADLGAEAGLQQLLALRELPRPKGLQRLLINNAGSLGDVSKGFVDLSDSTQVNNYWALNLTSMCLTSSVLKA
FPDSPGLNRTVVNISSLCALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLARETSVDPDMRK
GLQELKAKGKLVDCVSAQKLLSLEKDEFKSGAHVDFYDK

纯度:> 95% by HPLC

浓度:0.5 mg/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.