重组人NQO2蛋白

Recombinant NQO2 protein (His tag)

目录号 Catalog Number	539804
同用名 Synonyms	NRH dehydrogenase [quinone] 2; NRH:quinone oxidoreductase 2; Quinone reductase 2; QR2
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	P16083
分子量 Molecular Weight	Predictes a molecular mass of 26.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MAGKKVLIVY AHQEPKSFNG SLKNVAVDEL SRQGCTVTVS DLYAMNLEPR ATDKDITGTL SNPEVFNYGV ETHEAYKQRS LASDITDEQK KVREADLVIF QFPLYWFSVP AILKGWMDRV LCQGFAFDIP GFYDSGLLQG KLALLSVTTG GTAEMYTKTG VNGDSRYFLW PLQHGTLHFC GFKVLAPQIS FAPEIASEEE RKGMVAAWSQ RLQTIWKEEP IPCTAHWHFG QLEHHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 1-231 aa (P16083) were fused with C-terminal 6His tag.

保存与运输

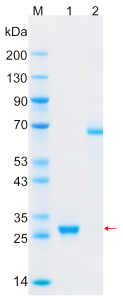
复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

功能描述

研究背景 Background	This product is a high-quality recombinant protein fragment of Ribosyldihydronicotinamide dehydrogenase [quinone] (NQO2), encompassing residues 1-231. It represents a stable and soluble unit ideal for structural studies and biochemical assays, supporting research in detoxification pathways and enzymatic function. The full-length NQO2 protein, encoded by the NQO2 gene in Homo sapiens, functions as a quinone reductase involved in detoxification pathways and biosynthetic processes, such as vitamin K-dependent gamma-carboxylation in prothrombin synthesis. It is localized in the cytoplasm, where it facilitates conjugation reactions of hydroquinones, playing a critical role in cellular protection and metabolic regulation.

验证数据

SDS-PAGE



Recombinant NQO2 protein (His tag) SDS-PAGE
M: Marker; Lane 1: NQO2; Lane 2: BSA