重组人NR1H3蛋白

Recombinant NR1H3 protein (His tag)

目录号 Catalog Number	538003
同用名 Synonyms	Liver X receptor alpha; Nuclear receptor subfamily 1 group H member 3
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q13133
分子量 Molecular Weight	Predictes a molecular mass of 42.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MNHKVLGNEL CSVCGDKASG FHYNVLSCEG CKGFFRRSVI KGAHYICHSG GHCPMDTYMR RKCQECRLRK CRQAGMREEC VLSEEQIRLK KLKRQEEEQA HATSLPPRAS SPPQILPQLS PEQLGMIEKL VAAQQQCNRR SFSDRLRVTP WPMAPDPHSR EARQQRFAHF TELAIVSVQE IVDFAKQLPG FLQLSREDQI ALLKTSAIEV MLLETSRRYN PGSESITFLK DFSYNREDFA KAGLQVEFIN PIFEFSRAMN ELQLNDAEFA LLIAISIFSA DRPNVQDQLQ VERLQHTYVE ALHAYVSIHH PHDRLMFPRM LMKLVSLRTL SSVHSEQVFA LRLQDKKLPP LLSEIWDVHE LEHHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, 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 93-447 aa (Q13133) 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.

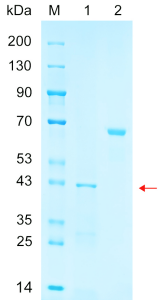
功能描述

研究背景 Background

Recombinant Human LXR-alpha (NR1H3) Fragment (residues 93-447) is a high-purity protein product encompassing the full nuclear receptor ligand-binding domain (LBD). This fragment serves as an essential tool for investigating ligand-dependent transcriptional regulation, cholesterol homeostasis, and lipid metabolism pathways in a domain-specific context.
Liver X receptor alpha (LXR-alpha), encoded by the NR1H3 gene, functions as a nuclear receptor with ligand-dependent transcriptional activation activity. It plays a critical role in cholesterol homeostasis by regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8. LXR-alpha interacts with retinoic acid receptor (RXR) to mediate retinoid responses through DR4-type LXRES response elements. Additionally, it regulates phospholipid remodeling in endoplasmic reticulum membranes via LPCAT3, driving SREBF1 processing and lipogenesis while modulating membrane dynamics for VLDL particle assembly. The receptor localizes to bot

验证数据

SDS-PAGE



Recombinant NR1H3 protein (His tag) SDS-PAGE
M: Marker; Lane 1: NR1H3; Lane 2: BSA