

LXR-alpha Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	Oxysterols receptor LXR-alpha; Nuclear receptor subfamily 1 group H member 3; LXRA; Liver X receptor alpha; NR1H3
Protein Construction:	1-402 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q13133
Molecular Weight:	53.1 kDa (predicted)
AA Sequence:	<p>MPHSAGGTAGVGLAAEPTALLTRAAPPSEPTAIRPQKRKKGPAKMLGNE LCSVCGDKASGFHYNVLSCEG CKGFFRRSVIKGAHYICHSGGHCPMDTYMRRKCQECLRKRQAGMREECVLSEEQIRLKKLKRQEEQAHHA TSLPPRASSPPQILPQLSPEQLGMIEKLVAQAQQCNRRSFSDDLRVTPWPMAPDPHSREARQQRFAHFTELA VSVQEI VDFAKQLPGFLQLSREDQIALKTS AIEVM LLET SRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINP IFEFSRAMNELQLNDAEFALLIAISIFSADRPNVQDQLQVERLQHTYVEALHAYVSIHHPHDRLMFPRMLMKL VSLRTLSSVHSEQVFALRLQDKKLPPLLSEIWDVHE</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity. Interaction with retinoic acid receptor (RXR) shifts RXR from its role as a silent DNA-binding partner to an active ligand-binding subunit in mediating retinoid responses through target genes defined by LXRES. LXRES are DR4-type response elements characterized by direct repeats of two similar hexanuclotide half-sites spaced by four nucleotides. Plays an important role in the regulation of cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8. Interplays functionally with RORA for the regulation of genes involved in liver metabolism. Induces LPCAT3-dependent phospholipid remodeling in endoplasmic reticulum (ER) membranes of hepatocytes, driving SREBF1 processing and lipogenesis. Via LPCAT3, triggers the incorporation of arachidonate into phosphatidylcholines of ER membranes, increasing membrane dynamics and enabling triacylglycerols transfer to nascent very low-density lipoprotein (VLDL) particles. Via LPCAT3 also counteracts lipid-induced ER stress response and inflammation, likely by modulating SRC kinase membrane compartmentalization and limiting the synthesis of lipid inflammatory mediators.

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