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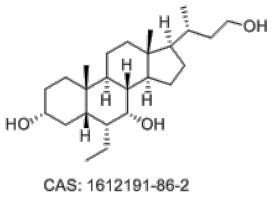
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BAR502
Cat. No.	:	PC-20485
CAS No.	:	1612191-86-2
Molecular Formula	:	$C_{25}H_{44}O_3$
Molecular Weight	:	392.62
Target	:	Farnesoid X Receptor (FXR)
Solubility	:	10 mM in DMSO



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Biological Activity

BAR502 (NorECDCOH) is a potent, selective, dual farnesoid X receptor (**FXR**) and G-protein coupled bile acid receptor 1 (**GP-BAR1, TGR5**) ligand (agonist) with EC50 of 2.0 and 0.4 uM, respectively.
BAR502 potently inhibits binding of LIF to LIFR with an IC50 of 3.8 uM.
BAR502 protected against liver damage caused by HFD by promoting the browning of adipose tissue.
BAR502 partially protected against liver damage caused by Western diet.
The combination of BAR502 and UDCA reversed the pro-atherogenic lipid profile and completely reversed the histopathology damage, attenuating liver steatosis, ballooning, inflammation and fibrosis.

References

Marchianò S, et al. ***Sci Rep.*** 2023 Jan 28;13(1):1602.

Carino A, et al. ***Sci Rep***. 2017 Feb 16;7:42801.

Festa C. et al. ***J Med Chem.*** 57, 8477–95 (2014).

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