Product Data Sheet

Product Name: NDB
Cat. No.: GC69541

Chemical Properties

Cas. No.	1660153-08-1		
Formula	$C_{26}H_{28}Cl_2N_2O_2$	M.Wt	471.42
Solubility	DMSO : 100 mg/mL (212.13 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	NDB		

Background

NDB is a selective **human FXRα (hFXRα)** antagonist that is effective in modulating transcription of FXRα downstream genes. NDB can be used in anti-diabetes research[1].

NDB induces rearrangements of helix 11 (H11) and helix 12 (H12, AF-2) by forming a homodimer of hFXRα-LBD, totally different from the active conformation in monomer state[1].
NDB (25 μM) effectively antagonizes the GW4064-stimulated FXR/RXR interaction and FXRα target gene expression in primary mouse hepatocytes, including the small heterodimer partner (SHP) and bile-salt export pump (BSEP)[1].

NDB (24 mg/kg; intraperitoneal injection; once a day; for 4 weeks) efficiently decreases the gene expressions of phosphoenolpyruvate carboxykinase (PEPCK), glucose 6-phosphatase (G6-pase), small heterodimer partner, and BSEP in db/db mice[1].

Animal Model: Male C57BL/6J db/db mice (8 weeks of age)[1]

Dosage: 24 mg/kg

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Administration:	Intraperitoneal injection; once a day; for 4 weeks
Result:	Decreased the gene expressions of PEPCK, G6-pase, small heterodimer partner, and BSEP.

[1]. Xing Xu, et al. Structural Basis for Small Molecule NDB (N-Benzyl-N-(3-(tert-butyl)-4-droxyphenyl)-2,6-dichloro-4-(dimetlamino) Benzamide) as a Selective Antagonist of Farnesoid X Receptor α (FXRα) in Stabilizing the Homodimerization of the Receptor.

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