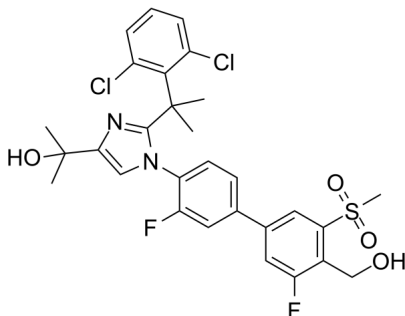


## Certificate of Analysis

Catalog Number	BP16870
Product Name	XL041

## Physical and Chemical Properties

Synonyms	BMS-852927
CAS No.	1256918-39-4
Chemical Formula	C <sub>29</sub> H <sub>28</sub> Cl <sub>2</sub> F <sub>2</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight	609.51
Solubility	DMSO: 100 mg/mL (164.07 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	XL041 (BMS-852927) is an agonist of LXRβ-selective.
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In vitro	XL041 (BMS-852927) is an LXR $\beta$ -selective agonist with 20% LXR $\alpha$ and 88% LXR $\beta$ activity compared to a full pan agonist in transactivation assays. BMS-852927 has similar binding affinity to LXR $\alpha$ and LXR $\beta$ (19 and 12 nM, respectively). XL041 is potent, with an EC <sub>50</sub> =9 nM and 26% activity in an in vitro human whole-blood endogenous target gene activation assay (WBA).
In vivo	XL041 (BMS-852927) which has a very favorable profile at efficacious doses in cynomolgus monkeys and mice. In a separate study, XL041 inhibits the progression of atherosclerosis in a 12 week study in LDLR KO mice. XL041 pre-treatment of C57BL/6J mice for 7 days results in potent, dose-dependent stimulation of cholesterol efflux in this system; reaching a maximum in the 3 mg/kg/day dose group of 70% above vehicle in the initial efflux rate. Similar results are obtained in LDLR knockout (KO) mice. Importantly, the dose response for inhibition of atherosclerosis (0.1-3 mg/kg/day) is similar to the dose response for macrophage reverse cholesterol transport (RCT) stimulation (0.03-3 mg/kg/day), a major underlying mechanism through which LXR agonists affect the disease.

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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