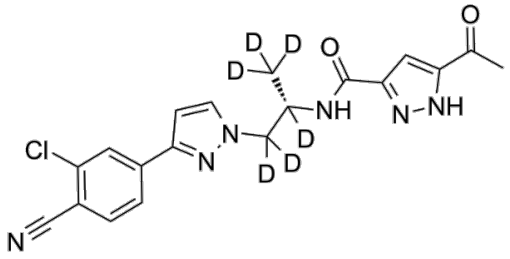
Product Data Sheet

Product Name: Ketodarolutamide-d 6
Cat. No.: GC80860

Chemical Properties

Cas. No.			
Formula	$C_{19}H_{11}D_6ClN_6O_2$	M.Wt	402.87
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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			



Background

Ketodarolutamide -d 6 (BAY 1896953-d 6) is the deuterium labeled Ketodarolutamide. Ketodarolutamide (ORM-15341) is a potent, high-affinity nonsteroidal competitive full antagonist of androgen receptor (AR). Ketodarolutamide displays a K i value of 8 nM for rat wild-type AR and an IC_{50} value of 38 nM in AR-HEK293 cells [1]. Ketodarolutamide inhibits testosterone-induced nuclear translocation of the AR and antagonizes both overexpressed and mutant ARs [1]. Ketodarolutamide specifically suppresses the proliferation of AR-dependent prostate cancer cells and exhibits antitumor activity in models of castration-resistant prostate cancer (CRPC) [1] [2]. Ketodarolutamide is suitable

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for the mechanistic and therapeutic research of prostate cancer [1] [2].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

[1]. Moilanen AM, et al. Discovery of ODM-201, a new-generation androgen receptor inhibitor targeting resistance mechanisms toandrogen signaling-directed prostate cancer therapies. Sci Rep. 2015 Jul 3;5:12007.

Caution: Product has not been fully validated for medical applications. For research use only.
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