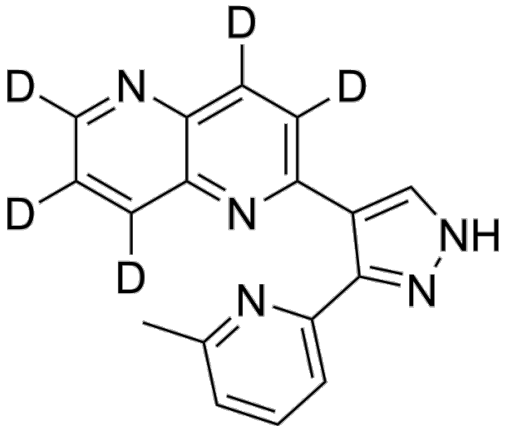
Product Data Sheet

Product Name: RepSox-d 5
Cat. No.: GC80859

Chemical Properties

Cas. No.			
Formula	$C_{17}H_8D_5N_5$	M.Wt	292.35
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

RepSox -d 5 (E-616452-d 5) is the deuterium labeled RepSox. RepSox (E-616452) is a potent and selective transforming growth factor-beta receptor I/activin like kinase 5 (TGF-β-RI/ALK5) inhibitor. RepSox inhibits ALK5 autophosphorylation with an IC_{50} value of 4 nM. RepSox can be used for the research of obesity and associated metabolic diseases such as type 2 diabetes [1] [2].

Caution: Product has not been fully validated for medical applications. For research use only.
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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]. Gellibert F, et al. Identification of 1,5-naphthyridine derivatives as a novel series of potent and selective TGF-beta type I receptor inhibitors. J Med Chem. 2004 Aug 26;47(18):4494-506.
[2]. Wan-Zhi Tu, et al. RepSox, a small molecule inhibitor of the TGFβ receptor, induces brown adipogenesis and browning of white adipocytes. Acta Pharmacol Sin. 2019 Dec;40(12):1523-1531.

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