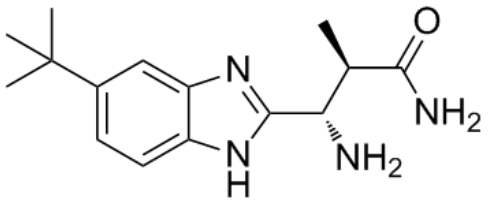
Product Data Sheet

Product Name: PF-06305591
Cat. No.: GC31095

Chemical Properties

Cas. No.	1449473-97-5		
SMILES	CC(C)(C)C1=CC=C(NC([C@H]([C@@H](C)C(N)=O)N)=N2)C2=C1		
Formula	$C_{15}H_{22}N_4O$	M.Wt	274.36
Solubility	Soluble in DMSO	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

PF-06305591 is a potent and highly selective voltage gated sodium channel NaV1.8 blocker, with an IC50 of 15 nM. An excellent preclinical in vitro ADME and safety profile[1].

PF-06305591 (compound 9) has a highly attractive profile with respect to NaV selectivity, hERG activity, passive permeability and in vitro metabolic stability[1].

PF-06305591 (compound 9) has good rat bioavailability. PF-06305591 offers the possibility of

investigating higher IC50 multiples of Nav1.8 blockade in the clinic, and therefore a more thorough evaluation of the role of NaV1.8 in the treatment of pain[1].

[1]. Brown AD, et al. The discovery and optimization of benzimidazoles as selective NaV1.8 blockers for the treatment of pain. Bioorg Med Chem. 2019 Jan 1;27(1):230-239.