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# Discovery of the First Orally Available, Selective K<sub>Na</sub>1.1 Inhibitor: In Vitro and In Vivo Activity of an Oxadiazole Series

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ABSTRACT: The gene KCNT1 encodes the sodium-activated potassium channel K<sub>Na</sub>1.1 (Slack, Slo2.2). Variants in the KCNT1 gene induce a gain-of-function (GoF) phenotype in ionic currents and cause a spectrum of intractable neurological disorders in infants and children, including epilepsy of infancy with migrating focal seizures (EIMFS) and autosomal dominant nocturnal frontal lobe epilepsy (ADNFLE). Effective treatment options for KCNT1related disease are absent, and novel therapies are urgently



required. We describe the development of a novel class of oxadiazole K<sub>Na</sub>1.1 inhibitors, leading to the discovery of compound 31 that reduced seizures and interictal spikes in a mouse model of KCNT1 GoF.

**KEYWORDS:** Small molecule inhibitor, KCNT1 GoF mutations, HTS, oxadiazole series, SAR, DMPK,  $K_{Na}1.1$ 

KCNT1 encodes the neuronal potassium channel K<sub>Na</sub>1.1 (Slack, Slo2.2) which is highly expressed throughout the central nervous system.1 Like other voltage-gated potassium channels, functional K<sub>Na</sub>1.1 channels are tetramers composed of four subunits. Each subunit contains a voltage sensing domain (S1-S4) and a pore-forming (S5-pore loop-S6) domain. However, K<sub>Na</sub>1.1 is only weakly gated by voltage and is activated by alterations in cytoplasmic signaling cascades, energy state (ATP, NAD+), and increases in intracellular sodium.1 These features allow the channel to open in response to short-term increases in neuronal activity whereby increased potassium efflux would be thought to reduce neuronal activity. Paradoxically, disease-causing variants in KCNT1 have invariably been found to increase the activity of the channel in a gain-of-function (GoF) manner. To date, orally active, selective inhibitors of K<sub>Na</sub>1.1 have not been reported. Therefore, novel orally active inhibitors of K<sub>Na</sub>1.1 would be important as potential therapeutics as well as tools to advance the understanding of the role of K<sub>Na</sub>1.1 in neurophysiology.

The  $K_{Na}$  gene family contains both  $K_{Na}1.1$  (Slack, Slo2.2; encoded by KCNT1) and K<sub>Na</sub>1.2 (Slick, Slo2.1; encoded by KCNT2). K<sub>Na</sub>1.1 is thought to conduct a sodium-activated potassium current in various central and peripheral nervous system (CNS and PNS) networks, including both inhibitory and excitatory CNS networks. K<sub>Na</sub>1.2 is thought to conduct the sodium-activated potassium current in the heart.<sup>2</sup> K<sub>Na</sub>1.1 and K<sub>Na</sub>1.2 have been suggested to form heterotetramers in cells that coexpress both genes. However, association of K<sub>Na</sub>1.1 and K<sub>Na</sub>1.2 in vivo has not been demonstrated.

 $K_{Na}1.1$  is thought to shape neural excitability on a subsecond time scale due to acute sensing of intracellular ionic and energy states.<sup>3</sup> K<sub>Na</sub> channels have a large C-terminal region, which contains two regulators of K+ conductance (RCK), which is where Na<sup>+</sup> binding is thought to occur. 1,4 Increases in intracellular Na+ concentration associated with neuronal activity enhances K<sub>Na</sub>1.1 channel activity and has been proposed to provide a vital feedback mechanism for controlling neural activity.5 Previous work has also linked activation of  $K_{Na}1.1$  to the presence of subthreshold  $I_{Na}$  (persistent  $I_{Na}$ ) and enhancements in  $I_{Na}$  are well-known to cause neuronal hyperexcitability. How variants in  $K_{Na}1.1$  disrupt this regulation to produce a GoF phenotype is currently not well understood.<sup>7,8</sup> However, newly reported mouse models of KCNT1 GoF will invariably provide new insights. 7,9,10

KCNT1 channel mutants are located around three functional areas: the NAD+ binding region situated in the C-terminus, the pore-forming region (between the S5 and S6 loops), and the RCK domains. All disease-causing variants are thought to be GoF and are associated with drug-resistant forms of infantile epilepsy such as the devastating epilepsy of infancy with migrating focal seizures (EIMFS)<sup>3,11-13</sup> or the less severe autosomal dominant nocturnal frontal lobe epilepsy (ADN-FLE). 14-16 Less common epileptic disorders include West

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Compound 1 Compound 2 
$$hK_{Na}1.1-WT \ IC_{50} = 9,285 \ nM$$

$$hK_{Na}1.1-WT \ IC_{50} = 1,876 \ nM$$

Figure 1. Oxadiazole HTS hits.

# Scheme 1. Synthesis of Compound 3

syndrome,<sup>17</sup> infantile spasm,<sup>18</sup> and Ohtahara syndrome.<sup>19</sup> Additional comorbidities are often present, including hypotonia, severe developmental delay, and movement disorder.<sup>20</sup>

Treatment options for KCNT1-related disease are extremely limited, and the seizures and comorbidities are intractable to conventional antiepileptics. Bepridil, <sup>21,22</sup> clofilium, <sup>23</sup> and quinidine <sup>1,22–25</sup> have been proposed as treatment options. However, because of nonspecificity in their mode of action 1,22,26 and recent questions around efficacy, their use is limited.<sup>21,24,27</sup> Currently, several groups have investigated agents that specifically inhibit K<sub>Na</sub>1.1. Spitznagel et al. recently reported the discovery of VU0606170, a small molecule  $K_{Na}1.1$ inhibitor with low micromolar potency.<sup>5</sup> VU0606170 was used to probe K<sub>Na</sub>1.1 inhibition in neuronal cultures and proved useful at significantly reducing hyperexcitability in spontaneously firing cortical neuron cultures. Among other groups working on K<sub>Na</sub>1.1 inhibitors, Cole et al. recently used the chicken K<sub>Na</sub>1.1 cryo-EM structure to perform a virtual screen of 100,000 commercial compounds to find those that were predicted to bind in the channel pore.<sup>22</sup> A set of 17 compounds was selected from this exercise, of which 6 molecules were found to inhibit the K<sub>Na</sub>1.1 channel with micromolar potency. Herein we describe our efforts in this area and describe for the first time in vivo activity of a small molecule K<sub>Na</sub>1.1 inhibitor in a mouse model of KCNT1 GoF.

A high throughput screen (HTS) using a rubidium ( $^{86}$ Rb) flux assay in HEK-TREX cells stably expressing the human EIMFS variant P924L ( $^{1}$ hK $_{\rm Na}$ 1.1-P924L) was developed. Cells were preloaded with Rb and then incubated for 10 min with test compound in the presence of elevated KCl ( $^{5}$ .4 mM) to depolarize the resting membrane potential and activate K $_{\rm Na}$ 1.1 mediated Rb efflux. The amount of Rb efflux was quantitated and expressed as percent efflux. Approximately 72,000 compounds were screened using a custom-built library designed to maximize chemical diversity and obtained from several commercial suppliers. Screening was performed at 10

µM of compound and yielded an approximate 1% hit rate when defined as greater than 55% inhibition. These hits were reconfirmed for activity by screening in the same assay in a concentration response format where 270 of the hits were found to have a half maximal inhibitory concentration (IC<sub>50</sub>) of 15  $\mu M$  or less. The 270 compounds were subsequently tested in an automated, SyncroPatch patch clamp assay to refine the assessment of activity directly on K<sub>Na</sub>1.1 current at physiological membrane potentials. HEK-TREX cells stably expressing human wildtype K<sub>Na</sub>1.1 (hK<sub>Na</sub>1.1-WT) were voltage clamped at -80 mV, and inhibition was measured using a voltage step to 0 mV. In this assay, K<sub>Na</sub>1.1 was activated by increasing intracellular Na+ to 70 mM. For the hKCNT1-WT and mKCNT1-WT assays, IC50s were generated using concentrations ranging from 0.001 to 30 µM in half log steps and a minimum of three cells (replicates) per concentration (Tables 1-3). For compound 31, all data represent a minimum of two (typically >3) independent experimental runs with at least five (typically >10) cells per concentration. Confirmed hits were subsequently clustered using chemoinformatic methods, and compound clusters were evaluated for their attractiveness to take forward into new analogue synthesis and development of structure-activity relationships (SARs). One cluster of interest, containing a phenyl oxadiazole scaffold, was selected for SAR studies and is described in this paper. Two such examples of oxadiazole<sup>28</sup> HTS hits are shown in Figure 1.

Compound 2 was of particular interest, and initial development of the scaffold sought to understand the basic SAR, as shown in Table 1. Compound 2 is a racemic mixture, and the individual enantiomers (compounds 3 and 4) were synthesized in a chiral fashion according to the scheme outlined in Scheme 1. Coupling of N'-hydroxy-3-methylbenzimidamide with the corresponding protected amino acid gave the desired chiral oxadiazole intermediate, which was then deprotected and coupled to the pyrazole carboxylic acid to

Table 1. Initial SAR Exploration around HTS Hit

Compound	Structure	hK <sub>Na</sub> 1.1-WT IC <sub>50</sub> (nM)		
3		167		
4		3,314		
5		>30,000		
6	N-O H	11,430		
7		335		
8		>30,000		
9		1,597		
10	N H N N N N N N N N N N N N N N N N N N	977		
11	N H F F	136		
12	N N N N N N N N N N N N N N N N N N N	6,489		
13	H O N F	>30,000		

afford compound 3. All subsequent analogues were synthesized according to this general scheme.

Comparing the activity of compounds 3 and 4, it was apparent that the stereochemistry of the methyl was important for inhibition at  $K_{Na}1.1$ , with the (S) isomer being the more active enantiomer. Not only is the stereochemistry important, but removal of the chiral methyl group led to greater than a 10-fold loss in activity (data not shown).

The pyrazole substitution pattern was found to be critical to activity. Comparing compound 5 to 3, we found that moving the methyl to the alternative pyrazole nitrogen abolished activity. Removal of the methyl on the left-hand side aromatic ring (compound 6) showed a significant loss of activity, although compound 11 demonstrates that fluorine is a suitable replacement for methyl (trifluoromethyl pyrazole has similar activity to cyclopropyl pyrazole). In an effort to establish if the

Table 2. Left Hand Side Heterocycle SAR

Compound	R	hK <sub>Na</sub> 1.1-WT IC <sub>50</sub> (nM)
14	N	>30,000
15	222	1,373
16	N	4,466
17	N State	165
18	N	>30,000
19	N Solve	5,245
20	222	11,800
21	N N	1,410
22	N 35	2,642

oxadiazole is simply a spacer to correctly orientate the other features of the molecules, we synthesized compounds **8–10** where alternative, readily accessible heterocycles were incorporated as replacements for the oxadiazole. All changes to the oxadiazole caused a reduction in activity, suggesting that electronic effects of the heterocycle may play a part in determining activity. Finally, compound **12** showed that *N*-

methylation of the amide is not tolerated and compound 13 demonstrates that a sulfonamide cannot be used to replace the amide.

Our initial SAR scoping yielded molecules with high lipophilicity (measured  $logD_{7.4}$  of 4 and higher), and we wished to establish if decreasing the lipophilicity was compatible with potent  $K_{Na}1.1$  inhibition. We probed the

Table 3. Effects of Pyridine Substitution on Activity and Compound Properties

Compound	R	hK <sub>Na</sub> 1.1-WT IC <sub>50</sub> (nM)	mK <sub>Na</sub> 1.1-WT IC <sub>50</sub> (nM)	LogD	Kinetic Solubility (μΜ)	HCL <sub>int</sub> (μL/ min/mg)
17	N 35	165	14,500	3.3	179	<9.6
23	0 N 3/2	27	3,001	3.4	156	<9.6
24	CN 25	573		4.2	41	48
25	_N	454		3.9	28	56
26	0 \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	505		4.4	3	10
27	7	16	1,143	4.1	16	<9.6
28	N 32	322	17,140	3.0	200	<9.6
29	F N	61	1,251	3.4	178	<9.6
30	The state of the s	195	>30,000	3.4	143	28
31	F P 22	40	622	3.6	58	<9.6
32	0 × 1/2 × 1/	6,282		3.8	123	21
33	0 1 3/2 1	744				
34		778				

introduction of various polar groups in the scaffold, with one such example being the use of heterocyclic rings in the left region as replacements for the existing substituted aromatic rings. The compounds in Table 2 describe the introduction of left-hand side heterocycles and their effect on  $K_{\rm Na}1.1$  inhibition. Compounds 18–20 contain unsubstituted pyridyl rings, and they were found to be poorly active, with the 4-pyridyl analogue, compound 19, being the most active.

However, in some cases, substitution on the pyridine ring did improve activity, with the 3-methyl substitution of the 4-pyridine (compound 17) showing very promising  $K_{\rm Na}1.1$  inhibition with an  $IC_{50}$  of 165 nM. The same was not true for the 2-pyridines and 3-pyridine analogues which were significantly less active (compare compound 17 to 14–16). Ring systems with additional heteroatoms such as compounds 21 and 22 were found to be weakly active.

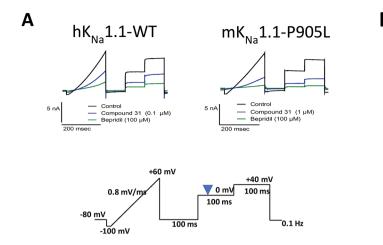
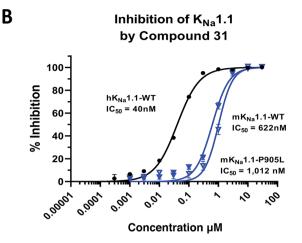


Figure 2. In vitro profile of compound 31 on human and mouse K<sub>Na</sub>1.1.

The SAR of compound 17 was further probed by varying the substituents on the pyridine ring as shown in Table 3. Compound 17 showed good aqueous kinetic solubility and *in vitro* stability in human liver microsomes. Changing the methyl group of compound 17 to the o-methoxy group in compound 23 enhanced the activity and maintained good *in vitro* metabolic stability. Tertiary amines at the meta position have weaker activity and poorer metabolic stability as seen with compounds 24 and 25. The secondary amine 30 did show comparable activity to compound 17 but was weaker than the methoxy analogue compound 23 as well as less metabolically stable (HCL<sub>int</sub> of 28  $\mu$ L/min/mg compared to <9.6  $\mu$ L/min/mg).

Placing a pendent methyl ether at the meta position, as shown by compound 28, caused a considerable loss in activity, which was also found with the substituted ether compounds 32–34. Addition of a second substituent to the aromatic ring caused a greater than 10-fold drop in activity (compare compound 26 to 23), and the cyclopropyl analogue 27 was found to be the most potent analogue in the series.

Where measured, it should be noted that all compounds showed a significant loss of activity at the mouse wildtype  $K_{Na}1.1$  (m $K_{Na}1.1$ -WT) channel compared to  $hK_{Na}1.1$ -WT (see Table 3). For example, our initial pyridine hit, compound 17, had an IC<sub>50</sub> of 165 nM at  $hK_{Na}1.1$ -WT but an IC<sub>50</sub> of >14,000 nM at mK<sub>Na</sub>1.1-WT. Given that our preclinical in vivo testing was performed in a mouse model of KCNT1 GoF, an in vivo assessment of the series was technically challenging due to a drop-off with mouse activity. The reason for the marked difference in potency between human and mouse wildtype channels is not well understood. Fortunately, the trifluoromethyl pyridyl analogue 31, although less active than some analogues at  $hK_{Na}1.1\text{-WT}$  (IC<sub>50</sub> 40 nM), was found to be the most potent compound at  $mK_{Na}1.1-WT$  (IC<sub>50</sub> 622 nM) with a modest 15-fold shift between the orthologues (Figure 2). Moreover, activity was retained at mK<sub>Na</sub>1.1-P905L (25-fold shift, Figure 2), which represents the mouse orthologue containing the human P924L EIMFS variant. This retained activity facilitated in vivo testing. Based on the described SAR findings, compound 31 was selected as a candidate to characterize further in our in vitro and in vivo assays. Additional patch clamp based, primary pharmacology revealed  $IC_{50}$ 's of 49 nM for cynomolgus monkey K<sub>Na</sub>1.1-WT and 545 nM for rat  $K_{Na}1.1-WT$ .



 $K_{\rm Na}1.1$  inhibition data described so far were determined using the human or mouse wildtype channels. Given that we aim to treat individuals with GoF  $K_{\rm Na}1.1$  variants, it is important to profile compounds of interest for activity across several variants due to their disparate locations in the channel protein. Cell lines stably expressing individual human KCNT1 GoF variants were created to represent recurrent variants located across the channel structure: transmembrane domains, RCK1, and RCK2. The activity of compound 31 at these variants was assessed (Figure 3), and all variants were less

# Inhibition of K<sub>Na</sub>1.1 by Compound 31

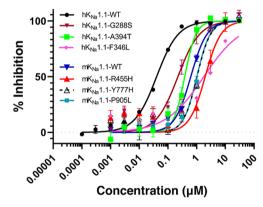


Figure 3. Effect of compound 31 on human and mouse  $K_{\rm Na}1.1$  variants.

active when compared to  $hK_{Na}1.1$ -WT with activity at the human variants ranging from 221 nM (G288S) to 1768 nM (F346L). Such a range of activities is a feature we have seen for several other members of the oxadiazole series (data not shown).

Further characterization of compound 31 included an assessment of potential secondary activity across a panel of 80 targets at 10  $\mu$ M compound concentration, using binding displacement assays. Only two hits showed >50% activity: translocator protein (TSPO) (63% displacement) and GABA<sub>A</sub> Cl<sup>-</sup> channel (74% displacement). Furthermore, using patch clamp analysis in a panel of ion channels, compound 31 showed no significant inhibition at hERG (IC<sub>50</sub> 11.9  $\mu$ M), hNa<sub>V</sub>1.5 (IC<sub>50</sub> 42  $\mu$ M), Ca<sub>V</sub>1.2 (IC<sub>50</sub> 10.7  $\mu$ M), or l<sub>Ks</sub> (IC<sub>50</sub>

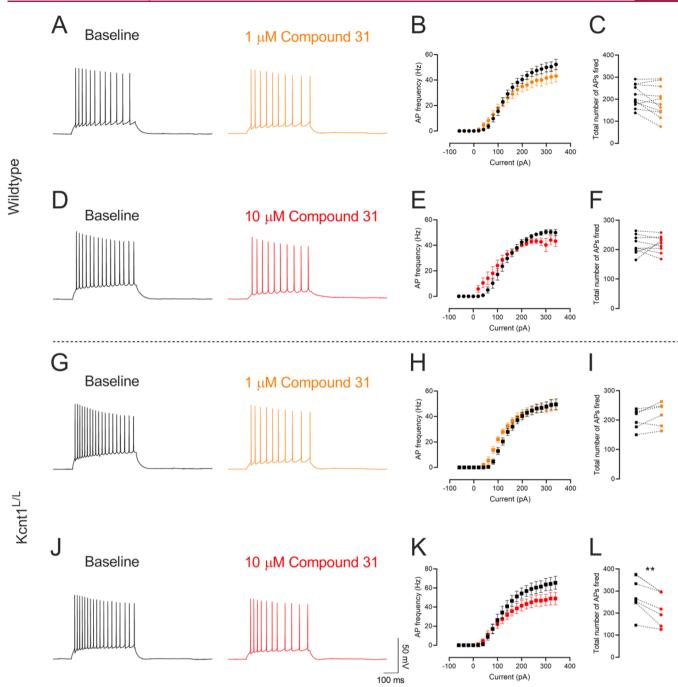
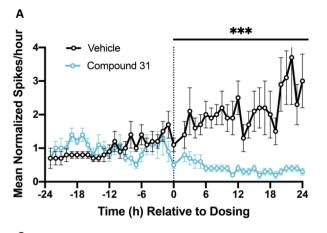


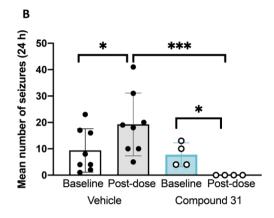
Figure 4. Effect of compound 31 on CA1 pyramidal neurons from wildtype and Kcnt1<sup>L/L</sup> mice. (A,D,G,J) Representative traces of baseline (black) and in the presence of 1  $\mu$ M (orange) and 10  $\mu$ M (red) compound 31. Quantification of (B,E,H,K) input-frequency relations and (C,F,I,L) total number of action potentials fired. Data presented as mean  $\pm$  SEM and paired individual data points. \*\*p < 0.01.

 $18.5~\mu M).$  Finally, additional patch clamp based assessment of compound 31 at the potassium channels BK (IC $_{50}$  13.2  $\mu M)$  and  $K_{Na}1.2/Slick/KCNT2$  (IC $_{50}$  16.4  $\mu M)$  showed weak activity. This package of data indicates that compound 31 shows good overall selectivity for the  $K_{Na}1.1$  channel.

The primary activity of compound 31 was further assessed in a native tissue brain slice preparation. Whole-cell patch clamp recordings from CA1 pyramidal neurons in acute mouse brain slices were performed. The effects of compound 31 on neuronal firing were evaluated in brain slices from WT mice and mice homozygous for mKcnt1-P905L (Kcnt1 $^{\rm L/L}$ ). The Kcnt1 $^{\rm L/L}$  mouse line recapitulates many key features of the human disease, including spontaneous seizures, high interictal

spike frequency, and reduced survival. <sup>10</sup> In brain slices prepared from p16–30 day old WT or Kcnt1<sup>L/L</sup> mice, a current injection protocol was used to determine action potential firing at baseline and in the presence of 1  $\mu$ M or 10  $\mu$ M of compound 31. In neurons from WT mice, there was a nonsignificant trend toward a decrease in the total number of action potentials fired in the presence of 1  $\mu$ M (p=0.054, baseline 213.5  $\pm$  15.21, compound 31 188.5  $\pm$  21.09, n=11 paired cells) and 10  $\mu$ M compound 31 (p=0.897, baseline 216.8  $\pm$  10.65, compound 31 218.1  $\pm$  9.43, n=9 paired cells) (Figure 4A–F). In neurons from Kcnt1<sup>L/L</sup> mice, although 1  $\mu$ M compound 31 did not alter firing (p=0.075, baseline 201.2  $\pm$  13.00, compound 31 219.5  $\pm$  16.5, n=6 paired cells),





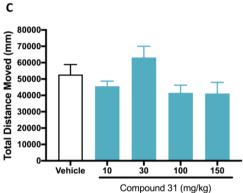


Figure 5. Compound 31 normalizes EEG phentotype in Kcnt1<sup>L/L</sup> mice without affecting spontaneous locomotor activity. Acute administration of compound 31 (30 mg/kg, SC) decreased interictal spike frequency (A) and decreased mean number of seizures (B) in Kcnt1<sup>L/L</sup> mice. Compound 31 (10–150 mg/kg) did not affect spontaneous locomotor activity in wildtype CD-1 mice (C). Data are mean  $\pm$  SEM, n = 4-10; \*P < 0.05 vs respective baseline; \*\*\*P < 0.0001 vs vehicle.

application of 10  $\mu$ M compound 31 resulted in a significant reduction in firing (p=0.0015, baseline 284.4  $\pm$  31.10, compound 31 223.4  $\pm$  28.01, n=7 paired cells) (Figure 4G–L).

Pharmacokinetics of compound **31** in CD-1 mice showed a compound with good brain penetration and low clearance, suitable for *in vivo* pharmacological testing. A 0.5 mg/kg IV dose (10% DMSO, 10% Solutol, and 80% water vehicle) had a clearance of 2.0 mL/min/kg, a Vd<sub>ss</sub> of 1.88 L/kg, and a half-life of over 20 h. Upon oral dosing, compound **31** was fully bioavailable and, with an oral dose of 30 mg/kg, slightly more compound was present in the brain compared to plasma, with 98.3% compound binding to mouse plasma protein and 97.8% compound binding to mouse brain tissue.

Compound 31 was assessed *in vivo* in the Kcnt1<sup>L/L</sup> mouse model. <sup>10</sup> Kcnt1<sup>L/L</sup> mice (P32–40) were implanted with EEG electrodes to allow monitoring of electrographic seizure and interictal spike frequency. After collecting a 24 h recording to establish baseline interictal spike and seizure frequency, Kcnt1<sup>L/L</sup> mice were dosed with vehicle (10% DMSO, 10% Solutol, and 80% water vehicle) or compound 31 (30 mg/kg, SC) and EEG recordings collected for a further 24 h.

Figure 5A depicts mean normalized interictal spike frequency over time. After dosing with vehicle, mice continue to have rising interictal spike frequency, whereas after dosing with compound 31 (30 mg/kg, SC) there is a robust reduction in interictal spike frequency that persists over the 24 h period. A subset of Kcnt1<sup>L/L</sup> mice (n = 12) exhibited multiple seizures (average 8.8  $\pm$  2.0 seizures/24 h) during the 24 h baseline

period (Figure 5B). Not a single seizure was observed in the 24 h period after dosing with compound 31 (30 mg/kg, SC). At this dose of compound 31 (30 mg/kg, SC), the maximum free brain concentration is approximately 270 nM, which is in the region of a quarter of the in vitro IC<sub>50</sub> (1012 nM) at mK<sub>Na</sub>1.1-P905L. For ion channel modulators, achieving in vivo activity at free concentrations in the brain which are well below the IC<sub>50</sub> determined using *in vitro* assays is not unprecedented. Indeed the sodium channel blocker carbamazepine shows anticonvulsant efficacy in mice with a free brain EC<sub>50</sub> of  $\sim$ 5.6  $\mu M$  despite its potency for blocking peak sodium currents in vitro (IC<sub>50</sub>) being 10–100-fold<sup>29,30</sup> higher (unpublished data). Similarly, the K<sub>v</sub>7 potassium channel positive modulator retigabine is efficacious at free brain concentrations of around one-third of the *in vitro*  $EC_{50}$ . To determine whether compound 31 had any nonspecific sedative effects, the molecule was assessed for effects on spontaneous locomotor activity in CD-1 mice. Compound 31 was devoid of any effects on distance moved over the dose range evaluated (10-150 mg/kg; Figure 5C). Together these in vivo data suggest that compound 31 ameliorates the phenotype of Kcnt1<sup>L/L</sup>mice and may have an acceptable therapeutic window between efficacy (free brain concentration of 270 nM) and tolerability (maximum brain concentration 1204 nM at 150 mg/kg).

In conclusion, we have discovered a series of oxadiazole small molecule  $K_{\rm Na}1.1$  inhibitors that successfully demonstrate *in vivo* activity in a mouse model of *KCNT1* GoF. Future efforts will be aimed at evaluating the effects of longer-term

dosing on survival and behavior in the Kcnt1<sup>L/L</sup> mouse to better understand if the series holds therapeutic potential.

### ASSOCIATED CONTENT

# Supporting Information

The Supporting Information is available free of charge at https://pubs.acs.org/doi/10.1021/acsmedchemlett.0c00675.

Details of the chemical synthesis and characterization for compounds 3, 4, 27, and 31; ethical statement regarding the use of experimental animals in the studies; descriptions of the patch clamp procedure and the assays used to detect excitability; information regarding *in vitro* pharmacology testing of compound 31 in binding assays, with associated histogram (PDF)

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# **Author Contributions**

The manuscript was written through contributions of all authors. All authors have given final approval to the final version of the manuscript.

#### Notes

The authors declare no competing financial interest.

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#### ■ NOTE ADDED AFTER ASAP PUBLICATION

This letter published ASAP on March 9, 2021, with an error in Figure 2. The corrected version was reposted on March 29,