SL-81. TRPA1 Agonists

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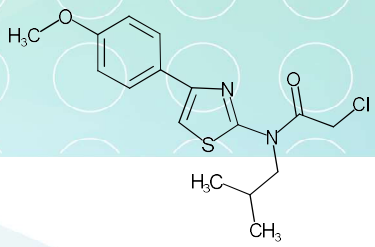
Transient receptor potential cation channel, subfamily A, member 1 (TRPA1) is an ion channel located on the plasma membrane and involved in regulation of sensory responses to pain, cold and mechanical irritations [1]. Several TRPA1 antagonists have been investigated as analgesic agents [1]. Interestingly, TRPA1 agonists can also attenuate pain through a desensitizing mechanism [2]. Understanding of molecular mechanisms of TRPA1 modulation is very important for rational design of small molecule agents with specific functional activity.

A recent study [3] reported several electrophilic compounds that covalently modify reactive cysteine residues revealing important insights about the key SH groups involved in TRPA1 activation. Analogs of the reported molecules were included into this library.



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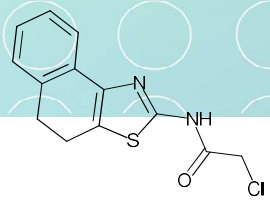

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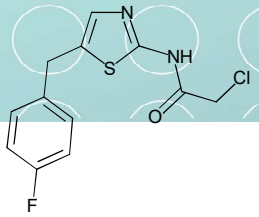

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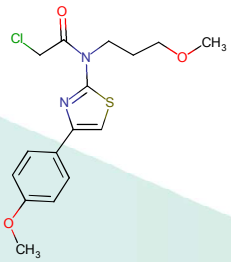

JT010, EC50 = 0.65 nM [3]

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Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 µmol; 1 µmol DMSO solutions	SL#81_TRPA1_agonist.sdf

References:

1. *Naunyn Schmiedebergs Arch Pharmacol*. 2015; 388(4): 451–463). doi: 10.1007/s00210-015-1088-3
2. *Nat Commun. 2011 Nov 22;2:551*. doi: 10.1038/ncomms1559.
3. *J Am Chem Soc. 2015 Dec 23;137(50):15859-64*. doi: 10.1021/jacs.5b10162.

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