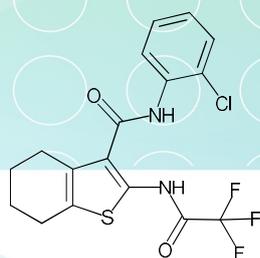


## SL-64. TMEM16A channel modulators

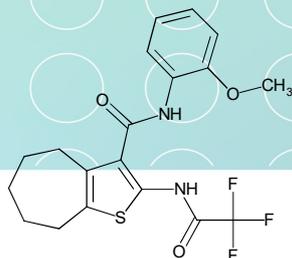
Transmembrane protein 16A (TMEM16A) is a calcium-activated chloride channel expressed in smooth muscle and epithelial cells. TMEM16A plays an important role in epithelial chloride secretion mediating intestinal motility. TMEM16A inhibitors have been proposed for treatment of disorders of epithelial fluid and mucus secretion, hypertension, asthma, and possibly cancer [1].

A recent study revealed that a series of 2-acylaminoalkylthiophene-3-carboxylic acid arylamides can inhibit TMEM16A at low nM concentrations. [1].

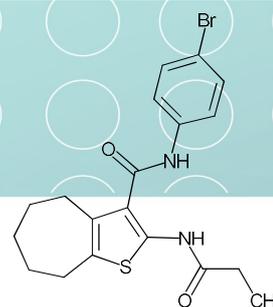
80 close analogs of the most potent inhibitor **10bm** were included into this library.



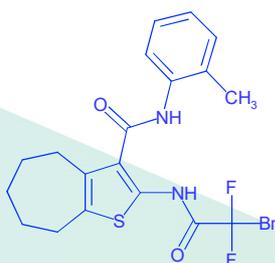
LAS 00832372



LAS 00832131



LAS 07407793



**10bm** IC<sub>50</sub> = 30 nM [1]

### Signature Library 64

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#64_TMEM16A_ICh.sdf

### References:

1. *J. Med. Chem.*, 2017, 60 (11), pp 4626–4635, doi: 10.1021/acs.jmedchem.7b00020

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