



## PBMC

## Data Sheet

---

<b>Catalog Number:</b>	MC11054	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	TRPM8 blocker	<b>CAS #:</b>	1352138-54-5
<b>Research Categories:</b>	Neuroscience, pain	<b>Chemical Name:</b>	(S)-1-Phenylethyl(2-aminoethyl)(4-(benzyloxy)-3-methoxybenzyl)carbamate
<b>Solubility:</b>	Soluble in DMSO (up to 30 mg/ml).	<b>Molecular Formula:</b>	C26H30N2O4
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	434.54
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	Room Temperature		

---

### Application Notes

**Description/Data:**

Potent and selective inhibitor of TRPM8 channels. PBMC inhibits both chemical and thermal activation of TRPM8 [1]. Reverses the menthol and cold-induced facilitation of the micturition reflex [2]. Represents a new lead for analgesic drugs based on blocking TRPM8 [3].

**References:**

- 1) Knowlton et al. (2011), Pharmacological blockade of TRPM8 ion channels alters cold and cold pain responses in mice; PLoS One, 6(9) e25894
- 2) Gardiner et al. (2014), The role of TRPM8 in the Guinea-pig bladder-cooling reflex investigated using a novel TRPM8 antagonist; Eur. J. Pharmacol., 740 398
- 3) Salat et al. (2013), Transient receptor potential channels – emerging novel drug targets for the treatment of pain; Curr. Med. Chem., 20 1409

**FOR RESEARCH USE ONLY**

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012