



<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

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