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## DATASHEET

ML 335

### Product overview

<b>Name</b>	ML 335
<b>Cat No</b>	HB6763
<b>Alternative names</b>	ML-335, ML335, ML 335
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	Selective K <sub>2P</sub> 2.1 (TREK-1) and K <sub>2P</sub> 10.1 (TREK-2) activator

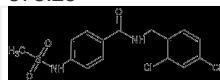
### Biological Data

<b>Biological description</b>	Selective K <sub>2P</sub> 2.1 (TREK-1) and K <sub>2P</sub> 10.1 (TREK-2) activator (EC <sub>50</sub> values are 14.3μM and 5.2 μM respectively) that does not activate K <sub>2P</sub> 4.1 (TRAAK).
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM), and in ethanol (20 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N-[(2,4-Dichlorophenyl)methyl]-4-[(methylsulfonyl)amino]benzamide
<b>Molecular Weight</b>	373.25
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>3</sub> S
<b>CAS Number</b>	825658-06-8
<b>PubChem identifier</b>	1243054
<b>SMILES</b>	CS(=O)(=O)NC1=CC=C(C=C1)C(=O)NCC2=C(C=C(C=C2)Cl)Cl
<b>InChi</b>	InChI=1S/C15H14Cl2N2O3S/c1-23(21,22)19-13-6-3-10(4-7-13)15(20)18-9-11-2-5-12(16)8-14(11)17/h2-8,19H,9H2,1H3,(H,18,20)
<b>InChiKey</b>	RDFIQTZRJRJVFK-UHFFFAOYSA-N
<b>MDL number</b>	MFCD12985402

### References

#### Protein and Chemical Determinants of BL-1249 Action and Selectivity for K(2P) Channels.

Pope L et al (2018) ACS chemical neuroscience 9

**PubMedID** [30089357](#)

#### K(2P)2.1 (TREK-1)-activator complexes reveal a cryptic selectivity filter binding site.

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PubMedID

28693035

**K(2P) channel C-type gating involves asymmetric selectivity filter order-disorder transitions.**

Lolicato M et al (2020) Science advances 6

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33127683

**The TREK-1 potassium channel is a potential pharmacological target for vasorelaxation in pulmonary hypertension.**

Csáki R et al (2024) British journal of pharmacology

PubMedID

38807478

**TREK-1 channels regulate pressure sensitivity and calcium signaling in trabecular meshwork cells.**

Yarishkin O et al (2018) The Journal of general physiology 150

PubMedID

30446509

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