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# DATASHEET CAT335

#### **Product overview**

Name	CAT335
Cat No	HB8146
Biological action	Activator
Purity	>98%
Description	$K_{2P}$ 2.1 (TREK-1) modulator. Used with ML336 as part of the CATKLAMP chemogenetic strategy. Selectively and irreversibly activates TREK-1 <sup>CG*</sup> but not wild-type $K_{2P}$ 2.1 (TREK-1)

## **Biological Data**

**Biological description** 

 $K_{2P}$ 2.1 (TREK-1) modulator. Recently used with ML 336 as part of the CATKLAMP chemogenetic strategy which uses the pair of compounds to rapidly and irreversibly activate engineered TREK subfamily members to allow further probing of  $K_{2P}$  function and act as a switch to silence neuronal firing. Selectively and covalently activates engineered versions of different  $K_{2P}$  TREK subfamily members when used with ML 336, e.g.  $K_{2P}$ 2.1 (TREK-1),  $K_{2P}$ 10.1 (TREK-2),  $K_{2P}$ 4.1(TRAAK).

## **Solubility & Handling**

Storage instructionsRoom temperatureSolubility overviewSoluble in DMSO (100 mM)ImportantThis product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not<br/>for human or veterinary use.

## **Chemical Data**

Chemical name Molecular Weight Chemical structure

Molecular Formula SMILES Source InChi

InChiKey Licensing details N-[(2,4-dichlorophenyl)methyl]-4-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)benzamide 375.21



C<sub>18</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub> Clc1ccc(CNC(=O)c2ccc(cc2)N2C(=O)C=CC2=O)c(Cl)c1 Synthetic InChI=1S/C18H12Cl2N2O3/c19-13-4-1-12(15(20)9-13)10-21-18(25)11-2-5-14(6-3-11)22-16(23)7-8-17(22)24/h1-9H,10H2,(H,21,25) KSVANLMIIBANJX-UHFFFAOYSA-N Sold under license from the Regents of the University of California

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#### References

Development of covalent chemogenetic K(2P) channel activators.

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