

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

CAT335

### Product overview

<b>Name</b>	CAT335
<b>Cat No</b>	HB8146
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	K <sub>2P</sub> 2.1 (TREK-1) modulator. Selectively and irreversibly activates TREK-1 <sup>CG*</sup> but not wild-type K <sub>2P</sub> 2.1 (TREK-1)

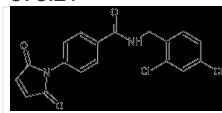
### Biological Data

<b>Biological description</b>	K <sub>2P</sub> 2.1 (TREK-1) modulator. Recently used with <a href="#">ML 336</a> 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 <sub>2P</sub> function and act as a switch to silence neuronal firing. Selectively and covalently activates engineered versions of different K <sub>2P</sub> TREK subfamily members when used with <a href="#">ML 336</a> , e.g. K <sub>2P</sub> 2.1 (TREK-1), K <sub>2P</sub> 10.1 (TREK-2), K <sub>2P</sub> 4.1 (TRAAK).
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100 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-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)benzamide
<b>Molecular Weight</b>	375.21
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>3</sub>
<b>SMILES</b>	<chem>Clc1ccc(CNC(=O)c2ccc(cc2)N2C(=O)C=CC2=O)c(Cl)c1</chem>
<b>Source</b>	Synthetic
<b>InChi</b>	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)
<b>InChiKey</b>	KSVANLMIIBANJX-UHFFFAOYSA-N

### References

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

Deal PE et al (2023) bioRxiv : the preprint server for biology

**PubMedID** [37905049](#)

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

Deal PE et al (2024) Cell chemical biology 31

**PubMedID**

[39029456](#)

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