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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 ^{CG*} 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).
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	N-[(2,4-dichlorophenyl)methyl]-4-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)benzamide
Molecular Weight	375.21
Chemical structure	
Molecular Formula	C ₁₈ H ₁₂ Cl ₂ N ₂ O ₃
SMILES	Clc1ccc(CNC(=O)c2ccc(cc2)N2C(=O)C=CC2=O)c(Cl)c1
Source	Synthetic
InChi	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)
InChiKey	KSVANLMIIBANJX-UHFFFAOYSA-N
Licensing details	Sold under license from the Regents of the University of California

This product is for in vitro research use only. It is not to be used for commercial purposes. Use of this product to produce products for sale or for diagnostic, therapeutic or drug discovery purposes is

Chemical name

N-[(2,4-dichlorophenyl)methyl]-4-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)benzamide
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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](#)
