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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)

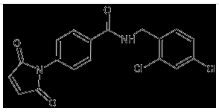
Biological Data

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 irreversiblly 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

Solubility overview	Soluble in DMSO (100 mM)
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	$C_{18}H_{12}Cl_2N_2O_3$
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*

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

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