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DATASHEET

ML 336 (K2P2.1/ TREK-1 modulator)

Product overview

Name	ML 336 (K2P2.1/ TREK-1 modulator)
Cat No	HB7386
Biological action	Activator
Purity	>99%
Description	Covalent K_{2P}2.1 (TREK-1) modulator

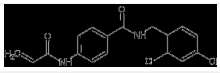
Biological Data

Biological description	K_{2P}2.1 (TREK-1) modulator. Recently used with CAT335 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 CAT335, e.g. K_{2P}2.1 (TREK-1), K_{2P}10.1 (TREK-2), K_{2P}4.1(TRAAK).

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-(prop-2-enamido)benzamide
Molecular Weight	349.2
Chemical structure	
Molecular Formula	$C_{17}H_{14}Cl_2N_2O_2$
CAS Number	1629267-48-6
SMILES	Clc1cc(Cl)ccc1CNC(=O)c1ccc(NC(=O)C=C)cc1
Source	Synthetic
InChi	InChI=1S/C17H14Cl2N2O2/c1-2-16(22)21-14-7-4-11(5-8-14)17(23)20-10-12-3-6-13(18)9-15(12)19/h2-9H,1,10H2,(H,20,23)(H,21,22)
InChiKey	UAHHMJIXIHBXMC-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