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

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

customercare-usa@m2stage.hellobio.com



DATASHEET

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

Product overview

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

Cat NoHB7386Biological actionActivatorPurity>99%

Description Covalent K_{2P}2.1 (TREK-1) modulator. Used with CAT335 as part of the CATKLAMP chemogenetic

strategy.

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 Solubility overview

Important

Room temperature

Soluble in DMSO (100 mM)

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 Molecular Weight Chemical structure $N\hbox{-}[(2,4\hbox{-}dichlorophenyl)methyl]\hbox{-}4\hbox{-}(prop-2\hbox{-}enamido)benzamide$

349.2

 $\begin{tabular}{lll} \textbf{Molecular Formula} & \hline $C_{17}H_{14}Cl_2N_2O_2$ \\ \textbf{CAS Number} & 1629267-48-6 \\ \end{tabular}$

 $\textbf{SMILES} \qquad \qquad \textbf{Clc1cc}(\textbf{Cl})\textbf{ccc1CNC}(=\textbf{O})\textbf{c1ccc}(\textbf{NC}(=\textbf{O})\textbf{C}=\textbf{C})\textbf{cc1}$

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) UAHHMJIXIHBXMC-UHFFFAOYSA-N

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InChiKey

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