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DATASHEET

GV-58

Product overview

Name	GV-58
Cat No	HB3920
Biological action	Agonist
Purity	>97%
Description	Selective N- and P/Q-type Ca^{2+}-channel agonist

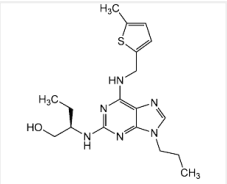
Biological Data

Biological description	Selective N- and P/Q-type Ca2+-channel agonist. These Ca2+-channels regulate transmitter release in synapses. Potential lead compound for a variety of disorders that result in neuromuscular weakness.

Solubility & Handling

Storage instructions	+4°C
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	(2R)-2-[[6-[[(5-Methyl-2-thienyl)methyl]amino]-9-propyl-9H-purin-2-yl]amino]-1-butanol
Molecular Weight	374.5
Chemical structure	
Molecular Formula	$C_{18}H_{26}N_6OS$
CAS Number	1402821-41-3
InChiKey	DPTXJOUVBMUSGY-CYBMUJFWSA-N
Appearance	White to off-white solid

References

Potentiation of neuromuscular transmission by a small molecule calcium channel gating modifier improves motor function in a severe spinal muscular atrophy mouse model.

Ojala KS et al (2023) Human molecular genetics 32
PubMedID 36757138

Evaluation of a novel calcium channel agonist for therapeutic potential in Lambert-Eaton myasthenic syndrome.

Tarr TB et al (2013) The Journal of neuroscience : the official journal of the Society for Neuroscience 33
PubMedID 23785168

Activation of Voltage-Gated Na(+) Current by GV-58, a Known Activator of Ca(V) Channels.

Cho HY et al (2022) Biomedicines 10

PubMedID 35327523