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DATASHEET

GV-58

Product overview

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

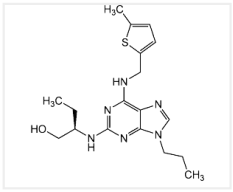
Biological Data

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
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	(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