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DATASHEET

Gap19

Product overview

Name	Gap19
Cat No	HB5162
Biological action	Blocker
Purity	>95%
Description	Cx43 hemichannel blocker

Biological Data

Biological description	Cx43 hemichannel blocker. Shows no effect on gap junction coupling or at Panx-1 channels. Reduces mitochondrial potassium influx in cardiomyocytes and reduces infact size in a mouse ischemia model. Inhibits astroglial Cx43 hemichannels in a dose-dependent manner, without affecting gap junction channels.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (1 mg/ml)
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

Molecular Weight	1161.46
Molecular Formula	$C_{55}H_{96}N_{14}O_{13}$
CAS Number	1507930-57-5
PubChem identifier	91691126
SMILES	[H]N[C@@H](CCCCN)C(=O)N[C@@H](CCC(N)=O)C(=O)N[C@@H]([C@@H](C)CC)C(=O)N[C@@H](CCC(O)=O)C(=O)N[C@@H]([C@@H](C)CC)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CCCCN)C(O)=O
Source	Synthetic
InChiKey	IEAKEKFIXUZWEH-PKMKMBMKSA-N

References

Gap19, a Cx43 Hemichannel Inhibitor, Acts as a Gating Modifier That Decreases Main State Opening While Increasing Substate Gating.

Lissoni A et al (2020) International journal of molecular sciences 21
PubMedID 33027889

The connexin43 mimetic peptide Gap19 inhibits hemichannels without altering gap junctional communication in astrocytes.

Abudara V et al (2014) Frontiers in cellular neuroscience 8
PubMedID 25374505

Selective inhibition of Cx43 hemichannels by Gap19 and its impact on myocardial ischemia/reperfusion injury.

Wang N et al (2013) Basic research in cardiology 108
PubMedID 23184389