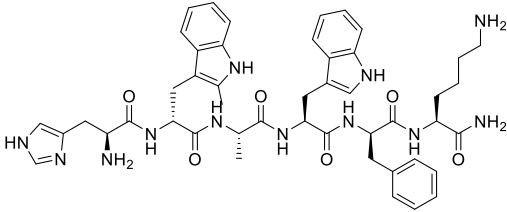


Product data sheet



MedKoo Cat#: 530032 Name: Examorelin CAS#: 140703-51-1 Chemical Formula: C ₄₇ H ₅₈ N ₁₂ O ₆ Exact Mass: 886.46 Molecular Weight: 887.06	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Examorelin, also known as Hexarelin, is a growth hormone-releasing factor (GHRF) agonist potentially for the treatment of cardiac diseases.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	30.0	33.82
DMF	30.0	33.82
Ethanol	5.0	5.64
PBS (pH 7.2)	10.0	11.27

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.13 mL	5.64 mL	11.27 mL
5 mM	0.23 mL	1.13 mL	2.25 mL
10 mM	0.11 mL	0.56 mL	1.13 mL
50 mM	0.02 mL	0.11 mL	0.23 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Meanti R, Rizzi L, Bresciani E, Molteni L, Locatelli V, Coco S, Omeljaniuk RJ, Torsello A. Hexarelin Modulation of MAPK and PI3K/Akt Pathways in Neuro-2A Cells Inhibits Hydrogen Peroxide-Induced Apoptotic Toxicity. *Pharmaceuticals (Basel)*. 2021 May 8;14(5):444. doi: 10.3390/ph14050444. PMID: 34066741; PMCID: PMC8150489.
2. Agbo E, Li MX, Wang YQ, Saahene RO, Massaro J, Tian GZ. Hexarelin protects cardiac H9C2 cells from angiotensin II-induced hypertrophy via the regulation of autophagy. *Pharmazie*. 2019 Aug 1;74(8):485-491. doi: 10.1691/ph.2019.9324. PMID: 31526442.

In vivo study

1. McDonald H, Peart J, Kurniawan ND, Galloway G, Royce SG, Samuel CS, Chen C. Hexarelin targets neuroinflammatory pathways to preserve cardiac morphology and function in a mouse model of myocardial ischemia-reperfusion. *Biomed Pharmacother*. 2020 Jul;127:110165. doi: 10.1016/j.biopha.2020.110165. Epub 2020 May 8. PMID: 32403043.
2. Cheng XL, Ding F, Wang DP, Zhou L, Cao JM. Hexarelin attenuates atherosclerosis via inhibiting LOX-1-NF-κB signaling pathway-mediated macrophage ox-LDL uptake in ApoE^{-/-} mice. *Peptides*. 2019 Nov;121:170122. doi: 10.1016/j.peptides.2019.170122. Epub 2019 Aug 3. PMID: 31386895.

Product data sheet



7. Bioactivity

Biological target:

A peptide agonist of GHS-R.

In vitro activity

Ang-II induced cardiomyocyte hypertrophy, oxidative stress, apoptosis and decreased cell survival, all of which were significantly suppressed by hexarelin treatment which also enhanced autophagy in hypertrophic H9C2 cells.

Reference: Pharmazie. 2019 Aug 1;74(8):485-491. <https://pubmed.ncbi.nlm.nih.gov/31526442/>

In vivo activity

IR-injured and sham mice were subjected to high-field magnetic resonance imaging to assess left ventricular (LV) function, with HEX (hexarelin)-treated mice demonstrating a significant improvement in LV function compared with VEH-treated mice. A significant decrease in interstitial collagen, TGF- β 1 expression and myofibroblast differentiation was also seen in the HEX-treated mice after 21 days. HEX treatment shifted the ANS balance towards a parasympathetic predominance; combined with a significant decrease in cardiac troponin-I and TNF- α levels, these findings were suggestive of an anti-inflammatory action on the myocardium mediated via HEX. In this model of IR, HEX appeared to rebalance the deregulated ANS and activate vagal anti-inflammatory pathways to prevent adverse remodelling and LV dysfunction.

Reference: Biomed Pharmacother. 2020 Jul;127:110165. <https://pubmed.ncbi.nlm.nih.gov/32403043/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.