

LyP-1 biochemical

LyP-1

CATALOG #
AAA228725

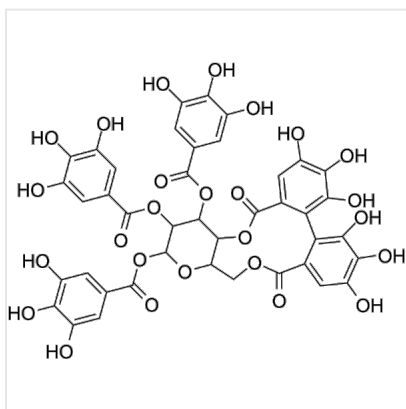
PRODUCT SYNONYMS

LyP-1; Eugeniin; LyP-1 biochemical

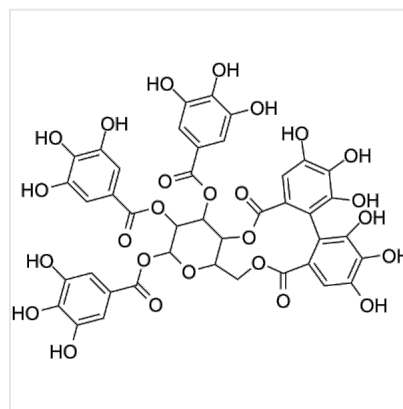
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	454487-07-1
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	LyP-1 (8weeks) shows a remarkable reduction in plaque formation and plaque occupation rates in the LyP-1-treated group. In addition, a higher apoptotic rate in macrophages released from hypoxic plaques is observed after the treatment of LyP-1when compared to control peptide[1].The LyP-1 peptide is labeled with a near-infrared fluorophore (Cy5.5) for optical imaging.At days 3, 7, 14 and 21 after inoculation with 4T1 cells, tumor-bearing BALB/C mice is injected Cy5.5-LyP-1 (0.8 nmol) through the middle phalanges of the upper extremities of the tumor-bearing mice. The fluorescence intensities were 0.024, 0.038, 0.048 and 0.106×10 ⁶ photon/cm ² /sec respectively at days 3, 7, 14 and 21 after tumor cell inoculation, which are 1.02, 1.63, 2.04, and 4.52-fold higher than in the contralateral LNs. Cy5.5-LyP-1 staining in LNs co-localized with LYVE-1, suggesting lymphatics-specific binding of LyP-1 peptide[1].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Tellimagrandin II, CAS 81571-72-4



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ADDITIONAL INFORMATION

Related Product Information for LyP-1 biochemical

LyP-1 is a cyclic 9?amino?acids tumor homing peptide and selectively bind to p32 receptors overexpressed in various tumor-associated cells.

References

1. Ruth Niemetz, et al. Oxidation of pentagalloylglucose to the ellagitannin, tellimagrandin II, by a phenol oxidase from *Tellima grandiflora* leaves. *Phytochemistry*. 2003 Feb;62(3):301-6.
2. Yu-Wei Chang, et al. Tellimagrandin II, A Type of Plant Polyphenol Extracted from *Trapa bispinosa* Inhibits Antibiotic Resistance of Drug-Resistant *Staphylococcus aureus*. *Int J Mol Sci*. 2019 Nov 18;20(22):5790.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/lyp-1/228725>