

## Ac2-12

Cat. No.:	HY-P1099
CAS No.:	256447-08-2
Molecular Formula:	C <sub>63</sub> H <sub>94</sub> N <sub>14</sub> O <sub>17</sub> S
Molecular Weight:	1351.57
Sequence Shortening:	Ac-AMVSEFLKQAW
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder    -80°C    2 years -20°C    1 year  * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

Description	Ac2-12, an annexin/lipocortin 1 (LC1)-mimetic peptide, inhibit neutrophil extravasation. Ac2-12 has antimigratory action and inhibits recruitment of neutrophils in experimental inflammation models <sup>[1][2]</sup> .
In Vivo	Ac2-12 (i.v.; 6.7 mg/kg, ≈70 nmol per mouse), was found to mimic the actions of lipocortin 1 (LC1) and Ac2-26 in male Swiss Albino mice (10-15 g) <sup>[1]</sup> . Ac2-12 (100 µg) significantly reduces polymorphonuclear leukocyte (PMN) influx in wild-type C57BL/6 mice and is no longer active in FPR KO mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Cancer Cell. 2023 May 8;41(5):903-918.e8.

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### REFERENCES

- [1]. L H Lim, et al. Promoting detachment of neutrophils adherent to murine postcapillary venules to control inflammation: effect of lipocortin 1. Proc Natl Acad Sci U S A. 1998 Nov 24;95(24):14535-9.
- [2]. M Perretti, et al. Involvement of the receptor for formylated peptides in the in vivo anti-migratory actions of annexin 1 and its mimetics. Am J Pathol. 2001 Jun;158(6):1969-73.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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