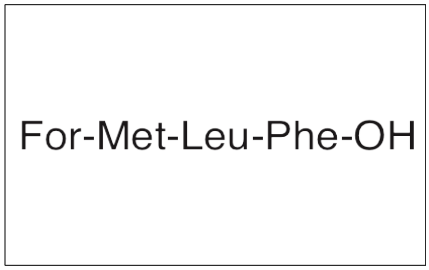
LKT Laboratories, Inc.

N-formyl-Met-Leu-Phe

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID F5870
CAS No. 59880-97-6
Chemical Name



Synonym N-Formylmethionine leucyl-phenylalanine; L-Phenylalanine, N-(N-(N-formyl-L-methionyl)-L-leucyl)-; Tyramine HCl; N-Formyl-Met-Leu-Phe; Chemotactic peptide.

Formula $C_{21}H_{31}N_3O_5S$
Formula Wt. 437.6
Melting Point
Purity ≥95%
Solubility Soluble in acetic acid (20 mg/mL), ethanol (2 mg/mL), DMSO (4 mg/mL), DMF (50 mg/mL).
Store Temp -20°C
Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
F5870	5 mg
F5870	10 mg
F5870	25 mg

Description N-fMLF is a peptide that binds n-formyl peptide receptors (FPRs) on neutrophils, playing a role in neutrophil activation. This peptide activates NADPH oxidase-dependent respiratory burst in neutrophils, generating ROS and inflammatory signaling cascades.

References

Hurtado-Nedelec M, Makni-Maalej K, Gougerot-Pocidalo MA, et al. Assessment of priming of the human neutrophil respiratory burst. Methods Mol Biol. 2014;1124:405-12. PMID: 24504964.

Andréasson E, Önnheim K, Forsman H. The subcellular localization of the receptor for platelet-activating factor in neutrophils affects signaling and activation characteristics. Clin Dev Immunol. 2013;2013:456407. PMID: 24069041.

Sengeløv H, Boulay F, Kjeldsen L, et al. Subcellular localization and translocation of the receptor for N-formylmethionyl-leucyl-phenylalanine in human neutrophils. Biochem J. 1994 Apr 15;299 (Pt 2):473-9. PMID: 8172608.