PRODUCT INFORMATION

BLMP6 (trifluoroacetate salt)

Item No. 46267

Formal Name: (4R,10S,16S,22S,25S,28R)-28-amino-10,25-*bis*(3-guanidinopropyl)-16-isopropyl-22-methyl-6,9,12,15,18,21,24,27-octaoxo-1,2-dithia-5,8,11,14,17,20,23,26-octaazacyclononacosane-4-carboxylic acid, trifluoroacetate salt

Synonyms: Breast Lung Metastasis-homing Peptide 6, cyclo(Cys-Arg-Ala-Gly-Val-Gly-Arg-Gly-Cys)-OH

Peptide Sequence: [CRAGVGRGC]-OH

MF: $C_{32}H_{57}N_{15}O_{10}S_2 \bullet XCF_3COOH$

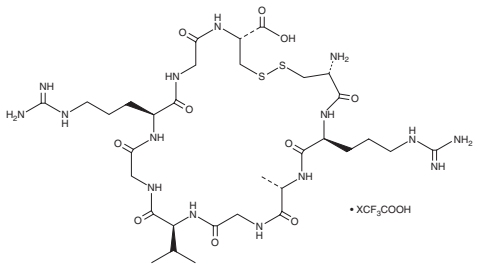
FW: 876.0

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BLMP6 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the BLMP6 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. BLMP6 (trifluoroacetate salt) is soluble (≥10 mg/ml) in organic solvents such as ethanol and DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of BLMP6 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. BLMP6 (trifluoroacetate salt) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

BLMP6 is a cyclic metastasis-homing peptide.[1] It mimics the EGF-like calcium-binding domain 6 of latent TGF-β-binding protein 4 (LTBP4) and selectively binds to fibulin-4 (FIBL-4) over FIBL-3 (K_ds = 0.318 and 635 µM, respectively). Fluorescently labeled BLMP6 selectively labels metastatic breast cancer biopsies over adjacent control breast tissue and non-ductal breast cancer biopsies in human tissue arrays.

Reference

1. Daquinag, A.C., Ghosh, S.C., AghaAmiri, S., *et al*. Fibulin-4 expressed in metastatic breast cancer is a target of peptide-based imaging probes and experimental therapeutics. *Mol. Ther. Oncol.* **34(2)**, 201207 (2026).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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