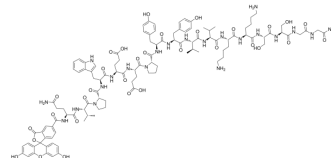


Bevonescein

Cat. No.:	HY-P4154
CAS No.:	2276787-79-0
Molecular Formula:	C ₁₁₂ H ₁₄₄ N ₂₂ O ₃₂
Molecular Weight:	2310.47
Sequence:	(5-FAM)-Gln-Val-Pro-Trp-Glu-Glu-Pro-Tyr-Tyr-Val-Val-Lys-Lys-Ser-Ser-Gly-Gly-(C-terminal amide)
Sequence Shortening:	(5-FAM)-QVPWEEPYYVKKSSGG(C-terminal amide)
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Sealed storage, away from moisture and light
	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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (43.28 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.4328 mL	2.1641 mL	4.3281 mL
5 mM	0.0866 mL	0.4328 mL	0.8656 mL
10 mM	0.0433 mL	0.2164 mL	0.4328 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Bevonescein (ALM-488) is a novel, intravenously-administrated fluorescein-conjugated peptide that binds nerve-associated connective tissue, labels peripheral nerves under real-time fluorescence imaging (FL) in living mice and human ex vivo nerve tissue. Bevonescein is a peptide-linked tracer which fluorescently labeled both intact and degenerated nerves^{[1][2]}.

In Vivo

Bevonescein (ALM-488; 900 nmol; IV; underwent a 90-minute observation period) improves nerve identification for intact, degenerated, and partially regenerated nerves by vivo realtime fluorescence imaging (FL) in female SKH⁰1 hairless, wild type, ~25 g mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kayva L Crawford, et al. Identification of Degenerated Murine Facial Nerves With Fluorescence Labeling After Transection Injury. *Otolaryngol Head Neck Surg.* 2023 Aug;169(2):234-242.

[2]. Feredun Azari, et al. Intraoperative molecular imaging clinical trials: a review of 2020 conference proceedings. *J Biomed Opt.* 2021 May;26(5):050901. Feredun Azari, et al. Intraoperative molecular imaging clinical trials: a review of 2020 conference proceedings. *J Biomed Opt.* 2021 May;26(5):050901.

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

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