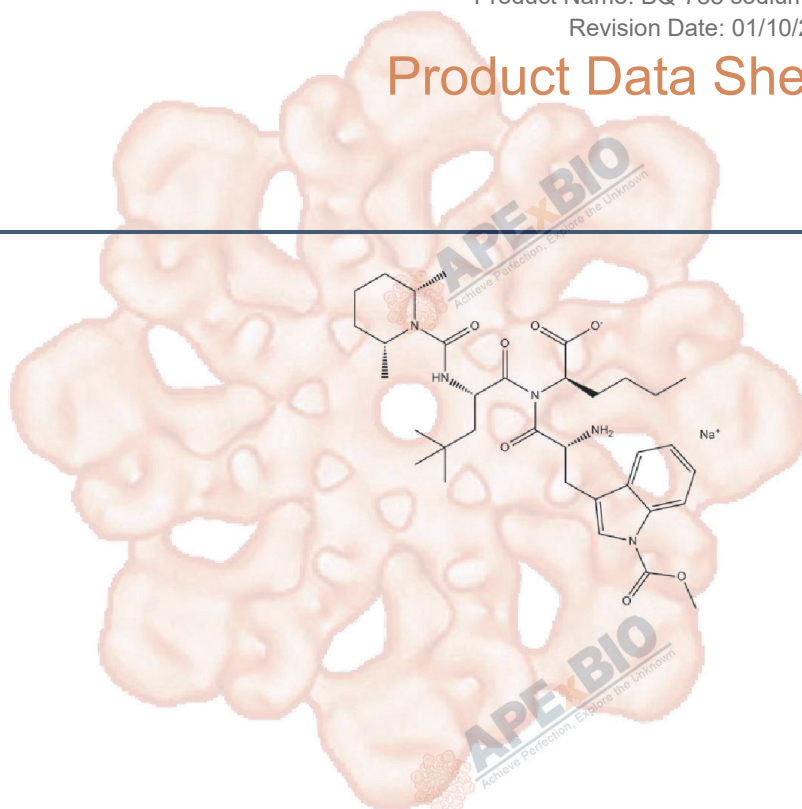


Product Data Sheet

BQ-788 sodium salt

Cat. No.:	B3278
CAS No.:	156161-89-6
Formula:	C ₃₄ H ₅₀ N ₅ NaO ₇
M.Wt:	663.78
Synonyms:	
Target:	
Pathway:	
Storage:	Desiccate at RT



Solvent & Solubility

≥33.2 mg/mL in DMSO; ≥2.71 mg/mL in H₂O with gentle warming and ultrasonic; ≥16.2 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.5065 mL	7.5326 mL	15.0652 mL
	5 mM	0.3013 mL	1.5065 mL	3.0130 mL
	10 mM	0.1507 mL	0.7533 mL	1.5065 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

ET B-receptor antagonist, potent and selective

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: hGH and pCASM cells

Preparation method:

The solubility of this compound in DMSO is > 33.2 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.

Reacting conditions:

100 μM

	Applications:	BQ-788 (100 μ M) did not increase [Ca ²⁺] _i in both hGH and pCASM cells. However, BQ-788 significantly inhibited ET-1-induced increases in [Ca ²⁺] _i in both cell lines.
In Vivo	Animal experiment	
	Animal models:	Rats
	Dosage form:	1 mg/kg; i.v.
	Applications:	BQ-788 (1 mg/kg) i.v. administered 5 mins before ET-1 injection completely inhibited the depressor response, correspondingly, causing a rapid onset of apparently enhanced pressor response.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

- Huang X, Chen C, et al. "Transdermal BQ-788 quantum dots as targeting and smart tyrosinase inhibitors in melanocytes." Mater Sci Eng C Mater Biol Appl. 2019 Sep;102:45-52.PMID:31147016

See more customer validations on www.apexbt.com.

References

- [1]. Ishikawa K, Ihara M, Noguchi K, et al. Biochemical and pharmacological profile of a potent and selective endothelin B-receptor antagonist, BQ-788. Proceedings of the National Academy of Sciences, 1994, 91(11): 4892-4896.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

