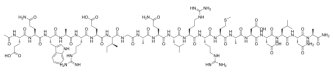
PUMA BH3

Cat. No.: HY-P1562

Molecular Formula: $C_{100}H_{162}N_{34}O_{32}S$

Molecular Weight: 2384.63

Sequence: Ac-Glu-Gln-Trp-Ala-Arg-Glu-Ile-Gly-Ala-Gln-Leu-Arg-Arg-Met-Ala-Asp-Asp-Leu-Asn-Ala-NH2



Sequence Shortening: Ac-EQWAREIGAQLRRMADDLNA-NH2

Target: Bcl-2 Family

Pathway: Apoptosis

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 (41.94 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.4194 mL	2.0968 mL	4.1935 mL
	5 mM	0.0839 mL	0.4194 mL	0.8387 mL
	10 mM	0.0419 mL	0.2097 mL	0.4194 mL

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

BIOLOGICAL ACTIVITY

Description

PUMA BH3 is a p53 upregulated modulator of apoptosis (PUMA) BH3 domain peptide, acts as a direct activator of Bak, with a K_d of 26 nM.

IC_{50} & Target

Bak

26 nM (Kd)

In Vitro

PUMA BH3 is a p53 upregulated modulator of apoptosis (PUMA) BH3 domain peptide, acts as a direct activator of Bak, with a K_d of 26 nM. PUMA BH3 binds Bak in the canonical BH3-binding groove, and activates Bak[1].

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

REFERENCES

[1]. Lopez A, et al. Co-targeting of BAX and BCL-XL proteins broadly overcomes resistance to apoptosis in cancer. Nat Commun. 2022 Mar 7;13(1):1199.

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

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