Grb2 SH2 domain inhibitor 1 TFA

Cat. No.: HY-146127A

Molecular Formula: $C_{68}H_{95}N_{20}O_{15}P.xC_2HF_3O_2$

Sequence: Cyclo(Tyr(PO3H2)-Arg-Arg-Pro-DPro-DArg-2Nal-Phe-Asn-Val)

Sequence Shortening: Cyclo(Tyr(PO3H2)-RRP-DPro-DArg-2Nal-FNV)

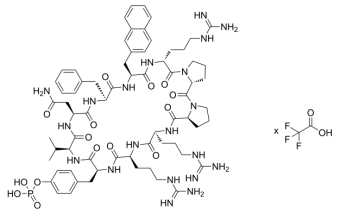
Target: Others

Pathway: Others

Storage: Sealed storage, away from moisture and light, under nitrogen

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, under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL * "≥" means soluble, but saturation unknown.
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Grb2 SH2 domain inhibitor 1 TFA is a conformationally restricted cyclic cell penetrating peptide (CPP) containing d-pro-l-pro motif ring (AF Φ Rpprrfq) (where Φ It is L-naphthylalanine, R is D-arginine, P is D-proline), which is mainly used as a cyclic peptide inhibitor.

REFERENCES

[1]. Wen J,et al. Rational design of cell-permeable cyclic peptides containing a d-Pro-l-Pro motif. Bioorg Med Chem. 2020 Oct 15;28(20):115711.

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