# Rabies Virus Glycoprotein TFA

**Cat. No.:** HY-P0285A

**Molecular Formula:** $C_{143}H_{218}N_{43}F_3O_{45}S$

**Molecular Weight:** 3380.72

**Sequence:** Tyr-Thr-Ile-Trp-Met-Pro-Glu-Asn-Pro-Arg-Pro-Gly-Thr-Pro-Cys-Asp-Ile-Phe-Thr-Asn-Ser-Arg-Gly-Lys-Arg-Ala-Ser-Asn-Gly YTIWMPENPRPGTPCDIFTNSRGKRASNG (TFA salt)

**Sequence Shortening:** YTIWMPENPRPGTPCDIFTNSRGKRASNG

**Target:** RABV

**Pathway:** Anti-infection

**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**

$H_2O$ : 100 mg/mL (29.58 mM; Need ultrasonic)
DMSO : 100 mg/mL (29.58 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 0.2958 mL | 1.4790 mL | 2.9579 mL |
| | 5 mM | 0.0592 mL | 0.2958 mL | 0.5916 mL |
| | 10 mM | 0.0296 mL | 0.1479 mL | 0.2958 mL |

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (0.74 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (0.74 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (0.74 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Rabies Virus Glycoprotein (TFA) is a 29-amino-acid cell penetrating peptide derived from a rabies virus glycoprotein that can cross the blood-brain barrier (BBB) and enter brain cells[1].

## CUSTOMER VALIDATION

- Neurosci Bull. 2021 Mar 29.

See more customer validations on www.MedChemExpress.com

## REFERENCES

[1]. Zou Z, et al. Cre Fused with RVG Peptide Mediates Targeted Genome Editing in Mouse Brain Cells In Vivo. Int J Mol Sci. 2016 Dec 14;17(12).



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