G-Protein antagonist peptide TFA

Cat. No.: HY-P1376A

Molecular Formula: $C_{59}H_{65}F_3N_{12}O_{11}S$

Molecular Weight: 1207.28

Sequence: {Glp}-Gln-Trp-Phe-Trp-Trp-Met-NH2

Sequence Shortening: {Glp}QWFWWM-NH2

Target: mAChR; Adrenergic Receptor

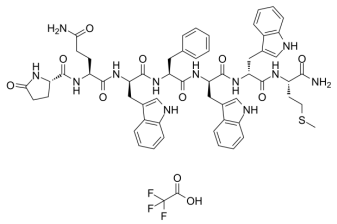
Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (41.42 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8283 mL	4.1415 mL	8.2831 mL
	5 mM	0.1657 mL	0.8283 mL	1.6566 mL
	10 mM	0.0828 mL	0.4142 mL	0.8283 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

G-Protein antagonist peptide TFA is a truncated substance P-related peptide, competes with receptor for G protein binding. G-Protein antagonist peptide TFA inhibits the activation of G_i or G_o by M2 muscarinic cholinergic receptor (M2 mAChR) or of G_s by beta-adrenergic receptor in the reconstituted phospholipid vesicles, assayed by receptor-promoted GTP hydrolysis[1].

REFERENCES

[1]. Mukai H, et al. G protein antagonists. A novel hydrophobic peptide competes with receptor for G protein binding. J Biol Chem. 1992;267(23):16237-16243.

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

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