

## TIP 39, Tuberoindubular Neuropeptide

**Cat. No.:** HY-P1852  
**CAS No.:** 277302-47-3  
**Molecular Formula:** C<sub>202</sub>H<sub>325</sub>N<sub>61</sub>O<sub>54</sub>S  
**Molecular Weight:** 4504.2  
**Sequence Shortening:** SLALADDAAFRERARLLAALERRHWLNSYMHKLLVLDAP  
**Target:** Adenylate Cyclase  
**Pathway:** GPCR/G Protein  
**Storage:** Sealed storage, away from moisture  
 Powder    -80°C    2 years  
              -20°C    1 year

SLALADDAAFRERARLLAALERRHWLNSYMHKLLVLDAP

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

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 50 mg/mL (11.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.2220 mL	1.1101 mL	2.2201 mL
	5 mM		0.0444 mL	0.2220 mL	0.4440 mL
	10 mM		0.0222 mL	0.1110 mL	0.2220 mL

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

### BIOLOGICAL ACTIVITY

#### Description

TIP 39, Tuberoindubular Neuropeptide is a neuropeptide and parathyroid hormone 2 receptor (PTH2R) agonist. TIP 39 is highly conserved among species. TIP39 from all species activates adenylyl cyclase and elevates intracellular calcium levels through parathyroid hormone 2 receptor (PTH2R)<sup>[1]</sup>.

### REFERENCES

[1]. Della Penna K, et al. Tuberoindubular peptide of 39 residues (TIP39): molecular structure and activity for parathyroid hormone 2 receptor. *Neuropharmacology*. 2003 Jan;44(1):141-53.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA