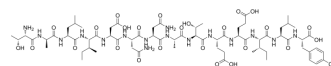


## Prosaptide Tx14(A)

<b>Cat. No.:</b>	HY-P1342
<b>CAS No.:</b>	196391-82-9
<b>Molecular Formula:</b>	C <sub>69</sub> H <sub>110</sub> N <sub>16</sub> O <sub>26</sub>
<b>Molecular Weight:</b>	1579.7
<b>Sequence:</b>	Thr-Ala-Leu-Ile-Asp-Asn-Asn-Ala-Thr-Glu-Glu-Ile-Leu-Tyr
<b>Sequence Shortening:</b>	TALIDNNATEEILY
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	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 : ≥ 100 mg/mL (63.30 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.6330 mL	3.1652 mL	6.3303 mL
	5 mM		0.1266 mL	0.6330 mL	1.2661 mL
	10 mM		0.0633 mL	0.3165 mL	0.6330 mL

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

#### In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 2.5 mg/mL (1.58 mM); Suspended solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Prosaptide Tx14(A), a prosaposin-derived peptide, is a potent GPR37L1 and GPR37 agonist with EC<sub>50</sub>s of 5 and 7 nM, respectively. Prosaptide Tx14(A) increases both ERK1 and ERK2 phosphorylation in Schwann cells<sup>[1][2]</sup>.

#### In Vitro

Prosaptide Tx14(A) promotes the endocytosis of GPR37 and GPR37L1, bound to both receptors and activated signaling in a GPR37- and GPR37L1-dependent manner. Prosaptide Tx14(A) is the active fragment of the secreted neuroprotective and glioprotective factor prosaposin (also known as sulfated glycoprotein-1)<sup>[1]</sup>.

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

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## REFERENCES

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[1]. Meyer RC, et al. GPR37 and GPR37L1 are receptors for the neuroprotective and glioprotective factors prosaptide and prosaposin. Proc Natl Acad Sci U S A. 2013;110(23):9529-9534.

[2]. Campana WM, et al. Prosaptide activates the MAPK pathway by a G-protein-dependent mechanism essential for enhanced sulfatide synthesis by Schwann cells. FASEB J. 1998;12(3):307-314.

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

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