(Asn10,Leu11,D-Trp12)-pTH-Related Protein (7-34) amide (human, mouse, rat)

Cat. No.: HY-P4385

CAS No.: 129622-68-0

Molecular Formula: $C_{162}H_{254}N_{50}O_{36}$

Molecular Weight: 3478.06

Sequence: Leu-Leu-His-Asn-Leu-{D-Trp}-Lys-Ser-Ile-Gln-Asp-Leu-Arg-Arg-Arg-Phe-Phe-Leu-His-His-Leu-Ile-Ala-Glu-Ile-His-Thr-Ala-NH2

LLHNL-{D-Trp}-KSIQDLRRRFFLHHLIAEIHTA-NH_2

Sequence Shortening: LLHNL-{D-Trp}-KSIQDLRRRFFLHHLIAEIHTA-NH2

Target: PTHR

Pathway: GPCR/G Protein

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

DMSO : ≥ 50 mg/mL (14.38 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.2875 mL	1.4376 mL	2.8752 mL
	5 mM	0.0575 mL	0.2875 mL	0.5750 mL
	10 mM	0.0288 mL	0.1438 mL	0.2875 mL

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

BIOLOGICAL ACTIVITY

Description (Asn10,Leu11,D-Trp12)-pTH-Related Protein (7-34) amide (human, mouse, rat) is a potent PTH-1R antagonist[1][2].

IC_{50} & Target PTH1R

REFERENCES

[1]. Nutt RF, et al. Removal of partial agonism from parathyroid hormone (PTH)-related protein-(7-34)NH2 by substitution of PTH amino acids at positions 10 and 11. Endocrinology. 1990 Jul;127(1):491-3.

[2]. Portal-Núñez S, et al. Parathyroid hormone-related protein exhibits antioxidant features in osteoblastic cells through its N-terminal and osteostatin domains. Bone Joint Res. 2018 Jan;7(1):58-68.

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