γ-Glu-Tyr

Cat. No.: HY-P4633

CAS No.: 7432-23-7

Molecular Formula: $C_{14}H_{18}N_2O_6$

Molecular Weight: 310.3

Sequence: {γ-Glu}-Tyr

Sequence Shortening: {γ-Glu}-Y

Target: Dipeptidyl Peptidase

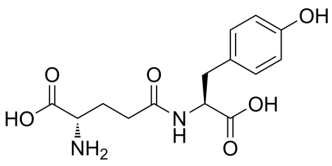
Pathway: Metabolic Enzyme/Protease

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 : 100 mg/mL (322.27 mM; Need ultrasonic)

H_2O : 12.5 mg/mL (40.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2227 mL	16.1134 mL	32.2269 mL
	5 mM	0.6445 mL	3.2227 mL	6.4454 mL
	10 mM	0.3223 mL	1.6113 mL	3.2227 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 (8.06 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.06 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

γ-Glu-Tyr, a competitive inhibitor of dipeptidyl peptidase-IV (DPP-IV) (IC_{50}=6.77 mM), is a potentially functional component of the type 2 diabetes diet[1].

IC_{50} & Target	DPP-4 6.77 mM (IC_{50})

REFERENCES

[1]. Yang J, et al. γ-Glu-Met synthesised using a bacterial glutaminase as a potential inhibitor of dipeptidyl peptidase IV[J]. International Journal of Food Science & Technology, 2018, 53(5): 1166-1175.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA