H-Gly-Sar-Sar-OH

Cat. No.: HY-P4296 CAS No.: 57836-11-0 Molecular Formula: C₈H₁₅N₃O₄ Molecular Weight: 217.22

Sequence: H-Gly-Sar-Sar-OH Sequence Shortening: G-{Sar}-{Sar}

Target: Amino Acid Derivatives

Pathway: Others

Please store the product under the recommended conditions in the Certificate of Storage:

Analysis.

Product Data Sheet

BIOLOGICAL ACTIVITY

Description

H-Gly-Sar-Sar-OH is an orally active tripeptide. H-Gly-Sar-Sar-OH is transported through PepT1 within Caco-2 cells. H-Gly Sar Sar OH has potential applications in material transportation [1][2][3].

In Vivo

H-Gly-Sar-Sar-OH (0.1 mM; perfusion; single dose) is insignificantly hydrolyzed (administered for 60 min) or cleared in the kidneys of Sprague-Dawley rats^[2].

H-Gly-Sar-Sar-OH (10 mg/kg; p.o.; single dose) shows stability in spontaneously hypertensive rats (SHRs)^[3].

Pharmacokinetic (PK) parameters of H-Gly-Sar-Sar-OH in SHRs^[3]

Week old	C _{max} (nmol/mL, plasma)	T _{max} (min)	AUC _{0-90 min} (nmol•min/mL, plasma)	T _{1/2} (min)
8	4.6±0.6	30	258.0±32.1	75
40	10.7±1.5	30	621.0±86.3	83

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

Animal Model:	Male Sprague-Dawley rats (350 g) ^[2] .
Dosage:	0.1 mM.
Administration:	Perfusion (kidney); single dose.
Result:	Showed stability.
Animal Model:	Male SHRs (8 and 40 week-old) ^[3] .
Dosage:	10 mg/kg.

Administration:	Oral gavage; single dose.
Result:	Detected in full form.

REFERENCES

- [1]. Hong SM, et al. Structural Design of Oligopeptides for Intestinal Transport Model. J Agric Food Chem. 2016 Mar 16;64(10):2072-9.
- [2]. Minami H, et al. Oligopeptides: mechanism of renal clearance depends on molecular structure. Am J Physiol. 1992 Jul;263(1 Pt 2):F109-15.
- [3]. Hanh VT, et al. Effect of Aging on the Absorption of Small Peptides in Spontaneously Hypertensive Rats. J Agric Food Chem. 2017 Jul 26;65(29):5935-5943.

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

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