

Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 29/12/2014
COA Revision Date: 29/12/2017

Product: Urotensin II (human)
Cat. No.: BP0276
Batch No.: 0276BP/01
Chemical Name:

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₄H₈₅N₁₃O₁₈S₂
Batch Molecular Weight: 1388.57
CAS No.: [251293-28-4]
Physical Appearance: White lyophilised solid
Melting Point:
Solubility: Soluble to 1 mg/ml in 0.01% NH₄OH in water
Storage: Desiccate at -20° C
Batch Molecular Structure:



H-Glu-Thr-Pro-Asp-Cys-Phe-Trp-Lys-Tyr-Cys-Val-OH

Product Description: **Potent endogenous agonist for the urotensin II receptor (EC₅₀ = 0.1 nM) identified in mammals as the orphan G protein coupled receptor-14 (GPCR-14). Displays arterio-selective vasoconstriction and vasodilatation in mammals *in vitro* and *in vivo*, effects which vary between species. Its vasoconstrictive potency is reported to be an order of magnitude greater than that of endothelin-1 (ET-1). Acts centrally to increase epinephrine and ACTH release and cause potent inotropic and chronotropic actions.**

References: 1. Coulouarn et al. (1998) Proc Natl Acad Sci USA 95:15803; 2. Nothacker et al. (1999) Nature Cell Biol 1:383; 3. Maguire and Davenport (2002) Br J Pharmacol 137:579; 4. Watson et al. (2003) Hypertension 42:373

- CAUTION - Not fully tested. For Research use only. Not for human use. –

Certificate Of Analysis
Quality Control Testing and Research Application

COA Preparation Date: 29/12/2014
 COA Revision Date: 29/12/2017

BP0276 Urotensin II (human)

2. ANALYTICAL DATA

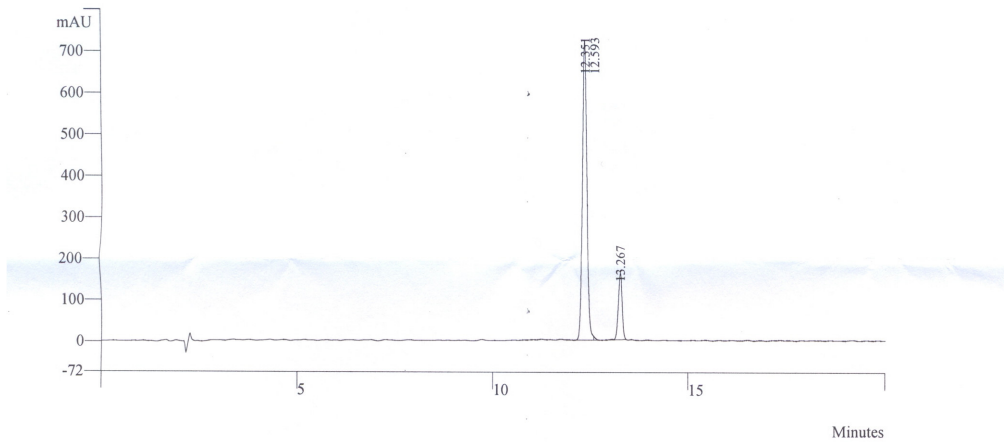
HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Counter Ion: Acetate; Peptide Content: 83%; HPLC Assay: 99.6% (complies).
 The peptide contains 15.87% of Glp derivation.

Data File:	c:\star\data\80-7-31\t09001a1002.run	Calc Date:	09/01/2005 10:37:06
Channel:	2 = UV 215 RESULTS	Times Calculated:	3
Sample ID:	Manual Sample	Calculation Method:	c:\docume~1\apc\locals~1\temp\~t0900
Instrument (Inj):	Waters 2690	Run Mode:	Analysis
Injection Date:	09/01/2005 10:15:36	Peak Measurement:	Peak Area
Injection Method:	c:\star\methods\right side method	Calculation Type:	Percent
Run Time (min):	20.000		

Wavelength: 215nm; Flowrate: 1.5ml/min; Buffer A: 0.1% TFA in Water; Buffer B: 0.1% TFA in Acetonitrile.
 Column: Discovery, C18 (4.6 mm x 250mm)5u; Gradient(Linear): 20%-40% Buffer B in 20 min. Inj Vol.:20ul
 Analyst: Shilpa Patel;



Peak No	Result (%)	Ret Time (min)	Peak Area (counts)	Width 1/2 (sec)	Peak Height (counts)
1	83.7597	12.351	5852720	0.0	641157
2	0.3724	12.593	26023	8.2	8822
3	15.8679	13.267	1108770	7.0	139334
	100.0000		6987513		789313

- CAUTION - Not fully tested. For Research use only. Not for human use. -