

Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 28/11/2014
COA Revision Date: 28/11/2017

Product: **Astressin**
Cat. No.: BP0041
Batch No.: 0041BP/01
Chemical Name: [D-Phe¹², Nle^{21,38}, Glu³⁰, Lys³³]-CRF (12-41) (human, rat)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆₁H₂₆₉N₄₉O₄₂
Batch Molecular Weight: 3563.24
CAS No.: [170809-51-5]
Physical Appearance: White lyophilised solid
Melting Point:
Solubility: Soluble to 1 mg/ml in 10% AcOH in water
Storage: Desiccate at -20° C
Batch Molecular Structure:

D-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Nle-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-cyclo-(-γ-Glu-Ala-His-ε-Lys)-Asn-Arg-Lys-Leu-Nle-Glu-Ile-Ile-NH₂

Product Description: **Potent corticotropin-releasing factor (CRF) receptor antagonist (Ki values are 2, 1.5 and 1 nM at CRF₁, CRF_{2a} and CRF_{2b} respectively). Displays inhibition of ACTH secretion *in vitro*. If injected into the CSF at low doses (1-10 µg), it has an antagonistic action against CRF and stress-related alterations of gastrointestinal motor function, without an intrinsic effect in these *in vivo* systems.**

References: 1. Gulyas et al. (1995) Proc Natl Acad Sci USA 92:10575; 2. Maecker et al. (1997) Brain Res 744:166; 3. Perrin and Vale (1999) Ann NY Acad Sci 885:312; 4. Martinez et al. (1999) J Pharmacol Exp Ther 290:629; 5. Rijkers et al. (2004) Chembiochem 5:340

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

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2. ANALYTICAL DATA

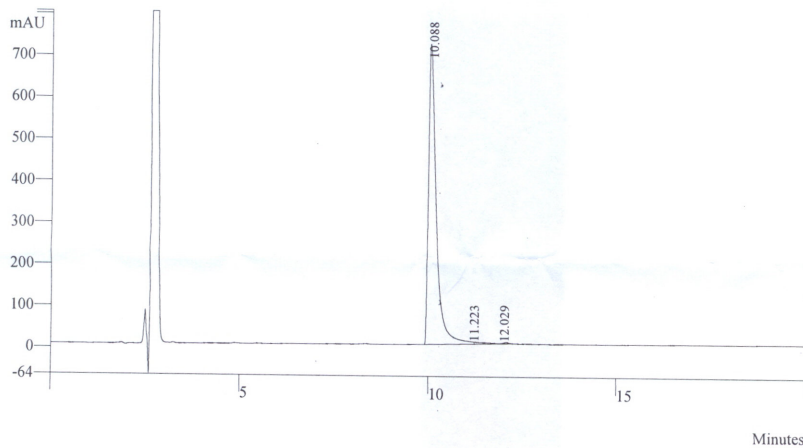
HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Counter Ion: Trifluoroacetate; Peptide Content: 79.4%; HPLC Assay: 98.4% (complies).

Data File: c:\star\data\34-0-14\09172t1-tfa001.ru
 Channel: 1 = UV RESULTS
 Sample ID: U09172T1-TFA
 Instrument (Inj): Left Side System
 Injection Date: 09/26/2006 03:51:22
 Injection Method: c:\star\methods\left side method.mth
 Run Time (min): 20.000
 Calc Date: 09/26/2006 04:25:57
 Times Calculated: 6
 Calculation Method: u09172t1-tfa001-1.mth
 Run Mode: Analysis
 Peak Measurement: Peak Area
 Calculation Type: Percent

Wavelength: 215nm; Flow rate: 1.2 ml/min; Buffer A: 0.1% TFA in Water; Buffer B: 0.1% TFA in Acetonitrile.
 Column: Discovery, C18, 4.6 mm x 250 mm, 5 micron; Gradient (Linear): 30%-50% Buffer B in 20 min.; Inj. Vol.: 20 ul
 Analyst: Shilpa Patel,



Peak No	Result (%)	Ret Time (min)	Peak Area (counts)	Peak Height (counts)
1	98.4	10.088	10387615	684980
2	1.3	11.223	136026	5054
3	0.3	12.029	28317	2902
	100.0		10551958	692936

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