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Certificate Of Analysis

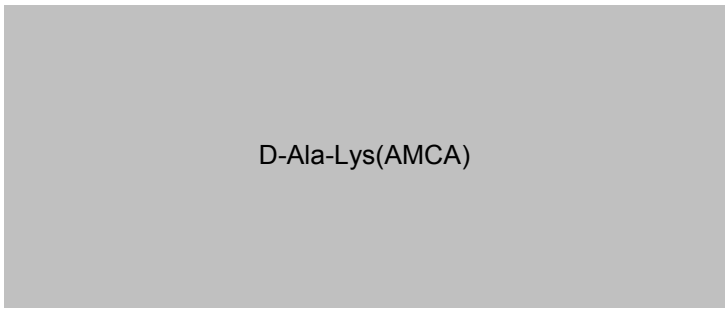
Quality Control Testing and Research Application

COA Preparation Date: 09/06/2017
COA Revision Date: 09/06/2020

Product:	**D-Ala-Lys(AMCA)**
Cat. No.:	BP0410
Batch No.:	0410BP/04
Chemical Name:	D-Ala-(L)-Lys-N-7-amino-4-methylcoumarin-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{21}H_{28}N_4O_6$
Batch Molecular Weight:	432.50
CAS No.:	
Physical Appearance:	Light yellow lyophilised powder
Melting Point:	
Solubility:	Soluble to 1 mg/ml in water
Storage:	Desiccate at -20° C
Batch Molecular Structure:	



Product Description: **Fluorescent dipeptide derivative, which could be used as an excellent reporter molecule for studying the oligopeptide transport system in brain cell cultures. See also β-Ala-Lys(AMCA) (Cat. No. BP0352).**

References:

1. Dieck et al. (1999) Glia 25:10; 2. Groneberg et al. (2001) Am J Physiol Gastrointest Liver Physiol 281:G697

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BP0410 D-Ala-Lys(AMCA)

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Counter Ion: Trifluoroacetate; HPLC Assay: 96.3% (complies).

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Mobile Phase:A:0.1%TFA in H2O
             B:0.09%TFA in (80%ACN+20%H2O)
Flow:1.0ml/min   16.0%-26.0% B buffer in 20min
Column:SepaxGP-C18 5u 120A 4.6*150mm A644#

=================================================================->
Injection Date  : 5/31/2017                  Location   :    Vial 34
Sample Name     : Final                      Inj. Vol.  :     30 µl
Acq Operator    : WMM
Acq. Method     : Final.M
Analysis Method : Final
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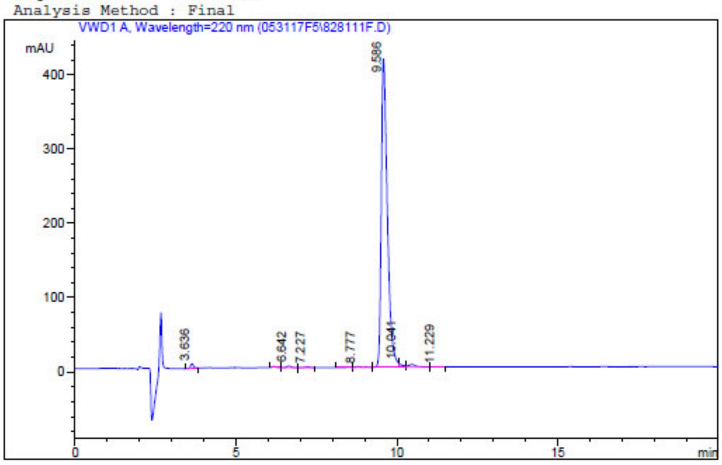


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Signal 1:VWD1 A, Wavelength=220 nm

Peak #	RT [min]	Type	Height	Width [min]	Area	Area %
1	3.636	PV	6.122	0.106	40.219	0.714
2	6.179	BV	1.360	0.133	10.718	0.190
3	6.642	VP	2.107	0.147	19.227	0.342
4	7.227	VBA	0.694	0.188	8.741	0.155
5	8.493	VV	0.371	0.200	5.076	0.090
6	8.777	VV	0.923	0.226	14.220	0.253
7	9.586	MF	415.435	0.218	5422.587	96.322
8	10.041	FM	6.121	0.122	44.800	0.796
9	10.468	VV	3.476	0.254	60.101	1.068
10	11.229	VBA	0.249	0.244	3.972	0.071

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                        *** End of Report ***
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- CAUTION - Not fully tested. For Research use only. Not for human use. –