

Certificate of Analysis

Delta-sleep inducing peptide

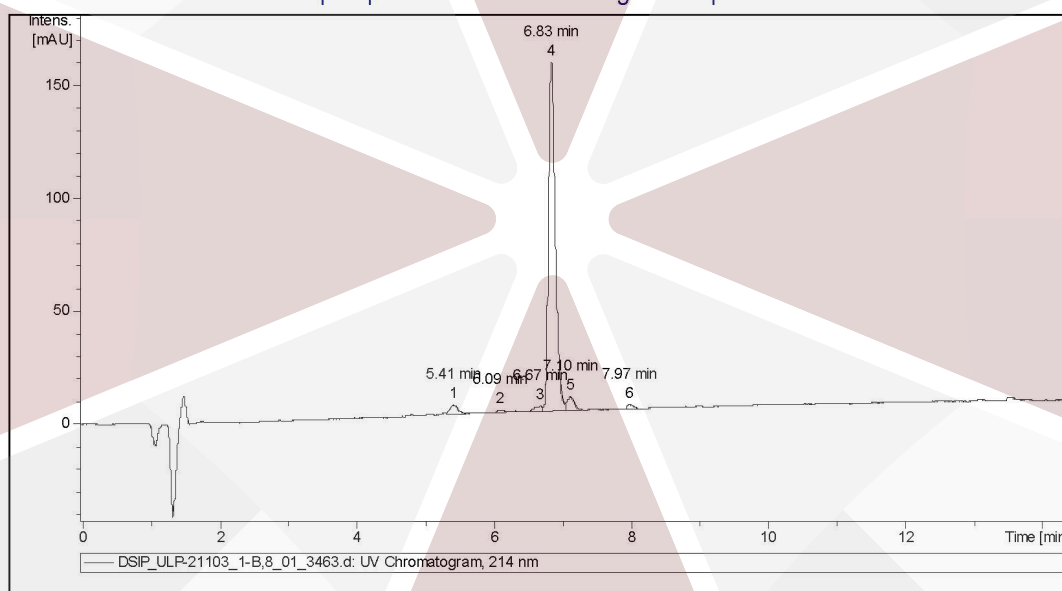
TRP-ALA-GLY-GLY-ASP-ALA-SER-GLY-GLU

Compound : DSIP
Lot number : ULP-21103
Analysis date : 2023-07-10
Purity % : 91.0%
Method : Mass Spectrometry and UV

Client : UMBRELLA.us
3280 E Hemisphere Loop
Tucson, Arizona 85706

PubChem CID: 68816

<https://pubchem.ncbi.nlm.nih.gov/compound/68816>



PEAK LIST			Number of detected peaks: 6	
Time (min)	Area	%Area		
5.41	3.00E+01	2.6		
6.09	8.46E+00	0.7		
6.67	1.85E+01	1.6		
6.83	1.06E+03	91.0	DSIP	
7.10	4.09E+01	3.5		
7.97	9.78E+00	0.8		

Purity determined using UV detection
Peak identity confirmed by mass spectrum evaluation
Expected mass : 848.33 g
Measured mass : 848.31 g
Molecular weight confirmed

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers.
These are not normally detected using UV and are not considered impurities.

Analysis Performed by
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2023-07-11