


Certificate of Analysis

Catalog Number	BP14052
Product Name	N-Caffeoyltryptophan

Physical and Chemical Properties

Synonyms	trans-Caffeoyl-L-tryptophan
CAS No.	109163-69-1
Chemical Formula	C ₂₀ H ₁₈ N ₂ O ₅
Molecular Weight	366.373
Solubility	
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	N-Caffeoyltryptophan, a potential Sirt inhibitor, is screened using coffee extract. N-Caffeoyltryptophan inhibited Sirt2 (IC ₅₀ ; 8.7 μM) better than Sirt1(IC ₅₀ ; 34μM).
Targets&IC ₅₀	SIRT1:34μM, Sirt2:8.7 μM

In vitro	In cellular levels, N-Caffeoyltryptophan was able to increase the acetylation of total lysine, cortactin and histone H3 in neuronal NG108-15 cells. In the same cells, the amide also increased the acetylation of lysine (K382) in p53, but not (K305).
----------	--

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<http://www.purduebio.com>

1-877.618.7311

info@purduebio.com

v2 Revision on 12/28/2022